The National

CLEANER & DYER

First in the Drycleaning Industry

Buyers' Guide giving names of all manufacturers of drycleaning equipment and supplies – a list of all product trade names – the main addresses of all manufacturers – grouping by states and cities of manufacturers, their branch offices, jobbers and distributors. A discussion of maintenance in all parts of the drycleaning operation. Data on plant management and operation. Table of contents on page 6.

GUIDEBOOK ISSUE

OF THE DRYCLEANING INDUSTRY

February 1952

and save on filtering costs, too!

Efficiency-minded dry cleaners have learned from experience that filter pressures stay low longer . . . solvents flow freely . . . when they filter with Hyflo*. Result: they lose less time closing down to clean filter screens or replace filter cloths.

Hyflo helps reduce filter shutdowns because it's a high speed filter powder with characteristics that are specially suited to dry cleaning requirements. Particle fineness is exactly right for trapping all dirt (lint, dust, and other solids). And the crystal-clear solvent passes freely through the cake that builds up on the screen.

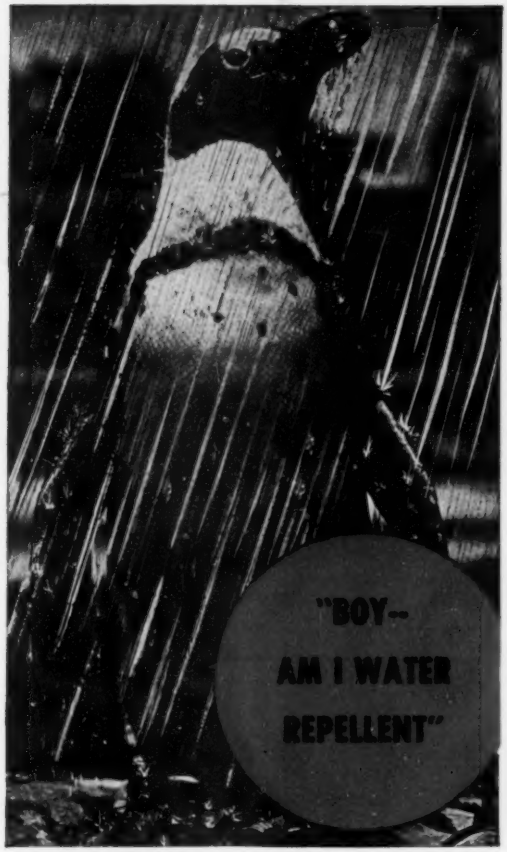
And here's another money-saving advantage: because Hyflo does such a thorough job, solvent requires distilling less often, therefore needs replacement less frequently. Your solvent recovery costs are lower, too!

Why not find out more about Hyflo—and how to use it to best advantage—by getting a copy of the 48-page Dry Cleaners' Handbook from your dealer. You'll find it full of valuable suggestions to help you increase the efficiency of your filtering system, and save money too. Johns-Manville, Box 290, New York 16, N. Y.

Reg. U. S. Pat. Off.

Johns-Manville HYFLO the original high speed Filter Powder

"Buckeye" LIQUID RE-VI



A Water Repellent and Fabric Retexture For Use in Petroleum or Chlorinated Solvent After Dry or Wet Cleaning

NO HEATING NECESSARY

A NEW OPPORTUNITY for greater customer satisfaction . . . the ANSWER to the perplexing problem of restoring these fabrics to original condition!

"Buckeye" RE-VI restores fabric life and luster . . . revitalizes the body and texture . . . creates moisture repellency . . . avoids discoloration of fabric by perspiration . . . assures more lasting press. Saves finishing time. It's a new, distinctive contribution to the Dry Cleaning Industry through the facilities of the Davies-Young Research laboratories.

For use in any Mechanical Dip Tank.

Advertising literature, button tags, window cards and streamers furnished free of charge to all RE-VI users.

DIRECTIONS FOR USE BY IMMERSION PROCESS IN GARMENT TREATMENT

Before RE-VI treatment, garments must be thoroughly cleaned of all soil and rinsed until absolutely clear of all soap, cleaning aids and soil. All spots should be also removed.

"Buckeye" RE-VI being concentrated, it is to be thoroughly mixed with cleaning solvent before use.

For Raincoats and Reversibles, use a solution made up of one part "Buckeye" RE-VI and five parts petroleum solvent. For other type work make solution one part RE-VI (Liquid), ten parts solvent. Simply pour into solvent at 85° to 90° F. Immerse garments. No heating necessary.

Immersing of garments can be done in any container large enough to handle the work.

After immersing operation, garments are extracted in the usual manner lightly. Then dry the garments in the dry room or tumbler in regular degree of temperature with plenty of air circulation or on Wind Whip. After drying press by usual method.

TO THE DAVIES-YOUNG SOAP CO.
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Please send us samples of Buckeye Liquid Re-Vi and full directions for use in all types of work.

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PERCHLORETHYLENE

gives you high-quality cleaning at low operating cost

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"Perclene" brings out the original brightness and feel of garments without causing shrinkage or leaving odor. What's more, dry cleaners find that "Perclene" produces high-quality work in a short cleaning cycle—keeps operating costs down by permitting efficient solvent recovery.

"Perclene" is nationally available through distributors and Du Pont district offices. With it comes complete Du Pont service and the assistance of technicians experienced in dry cleaning procedure.

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. . . THROUGH CHEMISTRY

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Perchlorethylene Solvent

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Get Complete Details . . .

Glide-Liner

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- ☐ Unipress Stainless Steel Washer
- ☐ 2 Girl 3 Press Shirt Unit, or . . .
- ☐ Have your experienced field engineer call on us.

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Manufacturers of Laundry Power Presses and Equipment

The UNIPRESS Company

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CONTENTS

NATIONAL CLEANER AND DYER

VOLUME FORTY-THREE FEBRUARY NINETEEN HUNDRED FIFTY-TWO NUMBER TWO

MAINTENANCE GUIDE

Maintenance Means Management 38
Costs Show "A Stitch in Time Saves Nine" 42
Planning and Layout 43
Who Does the Maintenance 46
Records and Inspections 48
Power, Heat, Light and Water 50
Building Needs Maintenance, Too 55
Efficient Production Equipment 57
Delivery Costs Stay Down 66
Housekeeping 71

DEPARTMENTS

Letters to the Editor 12
Signs of the Times 18
Business Builders 24
Gadgets and Gimmicks 30
Editorial 36
Twenty-five Years Ago 75

N.I.C.D. CONVENTION

Program 115
List of Exhibitors 117

BUYERS' GUIDE

How To Use the Directory 232
Classified Directory 233
Trade Names 287
Manufacturers 308
Local Buyers' Guide 316
Classified Advertisements 347
Advertisers' Index 353

DATA FOR DRYCLEANERS

THE CLEANING ROOM

Synthetic Solvents 76
Physical Properties of Synthetic Solvents 77
Petroleum Solvents 78
Solvent Filtration 78
Minimum Filter Powder Usage 79
Use and Characteristics of "Sweeteners" 80
Solvent Tests 80
Test for Wetcleaning Department 80
Recommended Drycleaning Washer Speeds 80
Extractor Speeds 80
Pumps for Filter Circulation 81
Capacities of Tanks 81
Capacities of Drycleaning Washers 81
Kilowatt Hours To Run Extractors 81

FINISHING HINTS

..... 81

THE SPOTTING DEPARTMENT

Common Spots 82
Spotting Tips 85
Stains To Be Prespotted 85
Burning Tests for Fibers 86

THE LAUNDRY DEPARTMENT

Laundry Extractor Speeds and Centrifugal Force 86
Laundry Washer Capacities 86
Laundry Washer Revolutions Per Minute 87

THE FUR DEPARTMENT

Fur Cleaning Classification 87
Fur Conditioning 87
Glazing Chart 88
Gauging Relative Humidity 88
Fur Storage Definitions 89
Approximate Cost of Vault Equipment 89
Capacities of Fumigation Cabinets 89

MANAGEMENT NOTES

Effects of Price Changes 90
Effect of Price Reduction on Profits 91
Relationship of Volume to Profit 91
Initial Supplies 91
Wage Incentives 92
Cost Percentages for the Year 1950 93
Sectional Analysis of Percentage Costs for the Year 1950 94
Production Standards 95
Conversion Ratios 95

ENGINEERING DATA

Boiler Efficiency 96
Boiler Efficiency Chart for Gas 99
Boiler Efficiency Chart for Soft Coal 99
Boiler Efficiency Chart for Fuel Oil 99
Efficiency Table Based on Evaporation 100
Proportions Between Feed Pipes and Main Line 100
Losses From Boiler Scale 101
Sizes for Boiler Combustion Chambers 101
Computing Oil Consumption When Coal Consumption Is Known 101
Steam Cost Chart 102
Coal and Oil Costs Compared 102
Diesel Fuel Consumption 102
Gallons of Water To Feed Boilers 103
Expansion of Pipe 103
Boiler Heat Balances 103

FACTS FOR FIGURING

Group vs. Individual Drive 104
Measuring Pump Efficiency 104
Computing Tank and Jar Capacities 105
Belt and Pulley Calculations 105
Flexible Metal Hose—Lengths and Minimum Bending Distances 105
Dimensions of Standard Wrought Pipe 106
Trap Capacities 106
Index to 1951 Articles 107
N.I.C.D. Technical Bulletins 110
Courses in Drycleaning and Related Subjects 112
Books for Drycleaners 114

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Only $2.30 per gallon for a Paint-Oil-Grease Remover equal in safety and working properties to advertised spotting compounds selling at $3.45 or more. Simply mix equal parts PYRATEX and solvent to make your own Paint-Oil-Grease Remover *superior* to most factory-mixed spotters, and *more economical* than all. This may sound unreasonable until due consideration is given to our guarantee that PYRATEX contains no cleaning solvent, water or other substance which might be in any way construed as a diluent, thinner or filler. PYRATEX is 100% active ingredient. Every ounce of volatile component is highly active on Paint-Oil-Grease. Every ounce of oily component is of the type which is most efficient in suspending loosened pigments to prevent redeposition. Unlike factory-mixed spotters PYRATEX is designed as a *base* for making Paint-Oil-Grease Remover in the buyer's plant. Our saving in cost of processing and distribution is passed on to the dry cleaner, who in turn enjoys a saving of 35 to 40% on his former cost of Paint-Oil-Grease Remover. Order a case of 100% active PYRATEX from your favorite jobber @ $4.60 per gallon. Mix as required with equal parts solvent. Then *compare* this $2.30 product with any factory-mixed product selling at 50% more. *Compare the speed of stain removal. Compare the rinsing properties. Compare the safety to dye and fabric.* You will then be among the thousands of PYRATEX enthusiasts.

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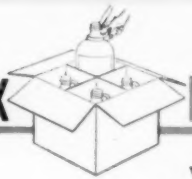

When you order from your jobber in the original 4-gallon case, you take full advantage of the saving made possible by our mass production and distribution in this standard package. If you order less than a case you automatically increase your jobber's cost of handling, packaging, delivering and billing, at least a portion of which he must pass on to you. Save 35c on each gallon you use by ordering in the standard 4-gallon case.

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561 WEST MONROE ST.,
CHICAGO 6, ILLINOIS

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SPY 9

When writing to advertisers please mention The NATIONAL CLEANER & DYER

YOU USE EASY-TO-GET PETROLEUM SOLVENT

in the GROSS-OMATIC UNIT

for 140° F. Solvent Operation

Illustrated—the motor-belted unit . . . complete individual motorized units also available.

Created and produced by petroleum dry cleaning machinery engineers, the GROSS-OMATIC UNIT for 140° F.—Petroleum Solvent, uses inexpensive, readily available petroleum solvent. The efficiency of this dry cleaning agent plus the designing of GROSS' economy-minded engineers combine to make a unit that is *perfectly balanced for economical high quality dry cleaning!*

The GROSS-OMATIC UNIT for 140° F.—Petroleum Solvent, is easy to install, easy to maintain, and absolutely safe to operate.

Fully automatic, it's a sure-fire profit booster, because it enables you to clean more garments . . . faster—without increasing material, time, power, or labor costs!

GROSS-OMATIC UNITS for 140° F.—Petroleum Solvent, are available to handle from 50 to 175 lbs. per load.

WRITE FOR FREE BULLETIN G-50 for the complete story of the "GROSS-OMATIC UNIT for 140° F.—Petroleum Solvent."

Tested and listed under reexamination service by Underwriters' Laboratories, Inc.

* Approved for use in California, too!

Founded 1923

GROSS MACHINERY CO., INC.

Originators and Manufacturers of the World's Finest Dry Cleaning Equipment

179 HALBERT ST. • BUFFALO 14, N. Y.

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FOR **BETTER** FLEXIBLE HOSE AND COUPLINGS

Specify PACKLESS

SUPPLIED AS STANDARD EQUIPMENT BY LEADING MANUFACTURERS AND DISTRIBUTORS —

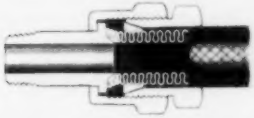
Packless manufactures and stocks every type of flexible metal hose unit required for all the various pressing machines now in use.

Packless Flexible Metal Hose is of the highest quality, seamless bronze tubing and contains no welded joints to weaken or crack. They are reinforced with high-tensile bronze wire braid which assures long life and extra safety under constant pressure.

Packless Flexible Metal Hose units are available in two constructions to satisfy every user; one with detachable fittings applied to the hose by mechanical means, the other with fittings brazed at each end.

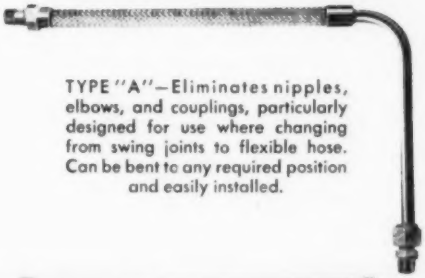
MECHANICAL FITTING ASSEMBLIES

Illustrated is type BD with Male Detachable Coupling each end. Also available with flanges one end or both ends.



Cross section view of the Packless Mechanical Coupling, showing the positive leakproof seal that is made without use of solder or application of excessive heat.

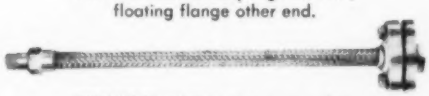
STANDARD UNITS WITH BRAZED FITTINGS



TYPE "A"—Eliminates nipples, elbows, and couplings, particularly designed for use where changing from swing joints to flexible hose. Can be bent to any required position and easily installed.

TYPE "B"—Male couplings each end.

TYPE "C"—Male coupling one end, floating flange other end.



TYPE "CC"—Unit as above, complete with Companion Flange.

TYPE "D"—Floating flange each end.

***PACKLESS FLEXIBLE HOSE** units are available for all pressing machines, in sizes 1/4", 5/16" and 3/8" I.D. with male pipe thread fittings or flanges, as required.*

Send for descriptive folder on PACKLESS FLEXIBLE HOSE units. If your local dealer doesn't handle Packless, write in for the name of your nearest supplier.

PACKLESS DISTRIBUTORS ARE A DEPENDABLE SOURCE OF SUPPLY

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Superior Quality

in concentrated strength

makes **RSR** the most

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It costs you less than 8 cents for a gallon of *RSR* digesting solution. And you get more than 50 gallons of digester bath from a single pound!

Not only can you put through a great many more jobs per pound but you're absolutely sure that there'll be no re-handling. *RSR* does the job right the first time . . . every time!

Yes, *RSR* quality speeds your production, cuts your wet cleaning costs way down, makes it easy to turn out uniformly good work . . . and it results in increased profits!

economical digester

WALLERSTEIN COMPANY, INC. • 180 MADISON AVENUE • NEW YORK 16, N. Y.

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LETTERS to the EDITOR

Spacing for Storage Rails

Dear Editor:

I have been reading with great interest and enthusiasm the articles on fur storage in the recent issues of your magazine. However, in your latest issue of December 1951 there is one error I would like to call to your attention.

On page 67 in the second paragraph you state as follows: "The insurance people also require a main aisle to be at least 3 feet wide between garment rails. Side aisles branching from the main aisle are to be 2 feet wide between garment rails."

This last part about the side aisles branching from the main aisles is an error as this should read 3 feet. I am sure if you check with the latest, up-to-date insurance booklets, you will find this to be so.

I do not mean to criticize in any way, but I am sure you want to give the right information to your reading public.

Again complimenting you on a first-class job.

HAROLD FRIEDMAN
Sales Manager
Brooklyn, N. Y. *Reliable Machine Works, Inc.*

We used the National Board of Fire Underwriters' pamphlet No. 81 on Fur Storage, dated August 1949, as our source in this case. It was sent to us by the Board in response to our request for the latest information.

Section 101, part (c), states that 2 feet will be acceptable for the side aisles.

However, we would like to point out that this is the *minimum* distance. We heartily agree that it *should* be 3 feet. The installation would be safer, and there would be less danger of injuring garments as passage was made through the aisles.

When reporting figures that apply to standards set up by the insurance rating authorities, we used printed materials published by these sources in every case. The effect of any error on our part might have a far-reaching effect, as you suggest.

To make sure that figures appearing in our storage series were accurate, we took the precaution of quoting these published minimum requirements wherever possible.

Glad you're enjoying the articles, the list of which will appear in our March issue.—EDITOR

The Bottleneck Is at the Top

Dear Editor:

The boss is the bottleneck!

I am the owner of a medium-size plant—plus a shirt unit. Like other plantowners, I want a quality dry-cleaning job, therefore I do all the spotting of hard-to-do garments such as dresses, blouses, etc. But the owner and manager has other things to do, like seeing at least one salesman a day, doing part of the bookkeeping, seeing that all equipment is operating properly, sales meetings with drivers and counter girls (we have six of each), plus special jobs that people want the owner to do personally. In one day I got 31 phone calls! Our phones ring an average of 125 times a day but when you are at work in the spotting room and get 31 calls in one day that is a lot of trips to your desk.

These "other things" leave little time for spotting, and that is where I hold up production. I had one of the best spotters in this area working for me as a presser and foreman in the finishing room. But today he is the foreman and spotter. He is my brother, Anthony, with 15 years' experience, and I am the manager.

I wonder how many other plantowners are the same—pennywise and dollar-foolish?

ARTHUR PANTALONE
Berwick, Pa. *LaSalle Cleaners*

Fuel Oil Viscosity-Temperature

Dear Editor:

Will you please send a copy of your July issue containing your article on package boilers and bill us, or the article alone if that is still available; our copy strangely disappeared.

I was intrigued by the article you had on possible shortages of light oil but as much by what it left out. How does viscosity-temperature relation for #2 oil compare with the Bunker C graph which you gave?

Who sells automatic CO_2 extinguishers?

R. J. BISSON
Barre, Vt. *Barre Dry Cleansing Co.*

Viscosity-temperature relationships for a #2 fuel oil would not show on the Bunker C graph we gave. Here is why:

The minimum viscosity range for #2 fuel oil is 34 SSU and the maximum 40 at 100 degrees F. So if you pick an average value of 37 SSU at 100° F you will find no space on the curve as we show it. But we can give you the information in a different way.

For example, the viscosity of a #2 fuel oil at −30° F would be about 190 SSU; at −20° F, 140; at −10°, 100; at 0°, 85; at plus 10°, 70; at 20° F, 60; at 30°, 55; at 40°, 50; at 50°, 47; at 60°, 44; at 70°, 42; at 80°, 40; at 90°, 38.5; at 100°, 37; at 110°, 36; at 120°, 35.

You should never preheat a #2 fuel oil and you always have to in the case of Bunker C, that is, the #4 and 5 oils. Preheating lowers the viscosity of a #2 fuel oil to where gasification and pulsification could result and the burner would not get a steady flow of oil.

Walter Kidde & Co., Inc., 686 Main St., Belleville, N. J., and C-O-Two Fire Equipment Co., P. O. Box 390, U. S. Highway 1, Newark 1, N. J. sell automatic CO_2 extinguishers. For other manufacturers of fire extinguishers see page 244 of the January 1951 NATIONAL CLEANER & DYER.—J.C.McC.

Cost-Conscious

Dear Editor:

In NATIONAL CLEANER & DYER for February 1951 there was an article entitled "Successful Budgetary Control" by Gordon McKee (Part 1). The March 1951 issue contained Part 2 of the article.

We would appreciate it if you would mail us Part 2 of the article as we cannot seem to locate the March 1951 issue.

Your magazine has been a great help to us in the operation of our plant.

RALPH D. MEADOWS
Louisville, Ohio *Meadows Dry Cleaning Co.*

Several cost-control-minded cleaners showed interest in Mr. McKee's methods.—EDITOR

WHY MORE NEIGHBORHOOD DRYCLEANERS are buying

the NEW '52 fully automatic SEC!

Neighborhood cleaners are putting more profits in their pockets, even in these high-cost days, with the New '52 SEC.

There's good reason for it, too!

The New '52 SEC does *more cleaning* in *less time—better cleaning* at *less cost*. With the SEC-*cleanized* process, clothes are completely submerged during the *whole* washing cycle, and turbulent agitator action keeps the fluid swishing through the fabric fibres. That's why SEC takes less time, does a better job.

SEC's exceptionally economical operation *plus* phenomenally high continuous solvent recovery keeps your operating costs way down.

And SEC's national advertising of SEC-*cleanized*, the deep down cleaning process, channels more customers to your store . . . brings you plus business every week of the year.

So, start putting *more* profits in *your* pocket with the New '52 SEC (available on SEC's easy budget-purchase plan.) Write for details, today!

Everything you need in one compact unit
. . . The New '52 SEC . . .

For Over 15 Years Producers Of The Finest In Synthetic Cleaning Systems.

SEC CLEANING SYSTEMS

SEC-o-matic Corp. 55 La France Ave., Bloomfield, N.J.
A General Precision Equipment Corporation Subsidiary

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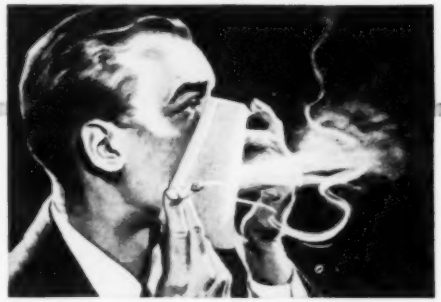
6 reasons why *Airfoam* makes the best press pads



1. Permits higher quality work with less effort
2. Affords instant removal of steam during vacuum cycle
3. Doesn't need washing
4. Eliminates button and zipper breakage
5. Banishes "shine" on gabardine, serge and similar materials
6. Lasts far longer than conventional quilted pads

Now you can get radically-improved press pads, thanks to AIRFOAM — the same foam latex material that has revolutionized cushioning. It's ideal for top layers, because of the way it permits instant removal of steam by vacuum. AIRFOAM is so porous you can actually blow cigarette smoke right through it. And its uniform resiliency permits a smoother, faster "press" with less effort.

If you manufacture press pads, you'll find that AIRFOAM will help you turn out a vastly improved product. If you own a cleaning establishment, this magic foam latex product will help you to better, faster work. And you'll save money, too, with AIRFOAM. For full information, write to Goodyear, Airfoam Dept., Akron 16, Ohio.

Airfoam

SUPER-CUSHIONING BY

GOODYEAR

THE GREATEST NAME IN RUBBER

Airfoam—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

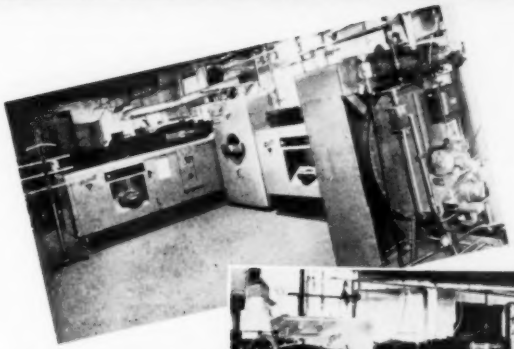
"CHAMPION" and "NORTH" AGREE VIC IS CHAMPION EVERYWHERE

Leaders

in the dry cleaning industry depend on...

Two great Pittsburgh laundries, the Champion and the North, both known to Pittsburghers for their fine quality work and dependable service, unite in praising VIC DRY CLEANING EQUIPMENT. Whether your laundry and dry cleaning plant is situated "North" or "South," you too can be a "Champion" in your area by using VIC equipment. It does MORE, does it BETTER, does it FASTER, does it MORE ECONOMICALLY.

Vic Dry Cleaning Equipment!



Three Vic Rocket Pers now operating in North Laundry, Pittsburgh, Pa.

... from drawing board to finished product, Vic Dry Cleaning Equipment is tested at every step. That's why those who know say:

- VIC EQUIPMENT LASTS LONGER
- VIC EQUIPMENT COSTS LESS TO OPERATE
- VIC EQUIPMENT EARNS MORE PROFITS
- VIC EQUIPMENT PRODUCES QUALITY WORK

Write for OUR FREE BOOKLET "TO HELP YOU MAKE MONEY IN YEARS TO COME."

First—INVESTIGATE—then, INVEST . . . in VIC modern dry cleaning equipment. Write our nearest office for facts that will make more money for your.

WORLD'S LARGEST LINE OF SYNTHETIC EQUIPMENT
EASY MONTHLY INSTALLMENTS

EXPERIENCED SINCE 1912

MAIN OFFICE AND PLANT **VIC CLEANING MACHINE CO.**

1313 HAWTHORNE AVENUE • MINNEAPOLIS 3, MINN.

District Offices and Display Rooms in the following Cities: NEW YORK 33 W. 3RD ST. • ST. LOUIS 3333 N. UNION • LOS ANGELES [illegible] S. Main

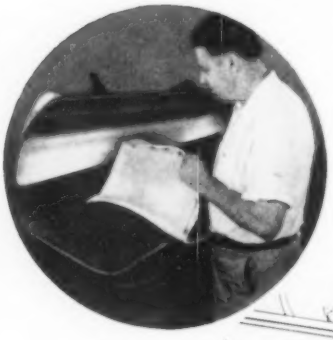
When writing to advertisers please mention The NATIONAL CLEANER & DYER

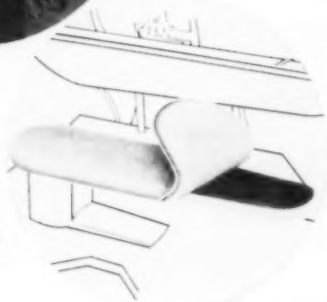
Resillo

. . . finest quality for all your pressing needs

Press Pads

There is a Resillo Press Pad to fit your machine perfectly, no matter what type or make you operate





For Shirt Presses

- Resillo Champion Metal Mesh Pad
- Resillo Flamonel* Pad

For Wearing Apparel Presses

- Resillo Champion Metal Mesh or Standard Pad
- Resillo Flamonel* Pad

For "Overall" Presses

- Resillo Champion Overall Pad
- Resillo Flamoverall* Pad

For Linen Supply Presses

- Resillo Champion Metal Mesh Pad
- Resillo Flamonel* Pad

For Dry Cleaning Presses

- Resillo Foamonel† Pad
  or
- Resillo Perfex Pad

For Handkerchief and Napkin Ironers

- Resillo Permo Pad
- Resillo Flamonel* Pad

*Metal-Flannel
†Top Pad Foam Rubber and Base Pad Metal Mesh

Your Resillo Jobber is trained to help solve your press maintenance problems. Call him today.

WORLD'S LARGEST EXCLUSIVE MANUFACTURERS OF METAL

Resillo PRESS PADS

RESILLO COMPANY · 2328 WEST NELSON STREET · CHICAGO 18, ILLINOIS

WE'LL SEE YOU AT RESILLO'S BOOTHS 701-702, N.I.C.D. SHOW, ST. LOUIS

When writing to advertisers please mention The NATIONAL CLEANER & DYER

"DARCO®, too,

makes a clean sweep

of all trouble-makers!"

ALL trouble-makers must be accounted for before any clean-up job is complete—especially when it comes to solvent purification.

Darco does the *complete* job! What's more, Darco sweeps your solvent clean of *all* impurities without requiring the help of special "sweeteners." Pound for pound, Darco is the best decolorizer, the best deodorizer, the best fatty acid remover available to drycleaners!

Remember! Once a day *every* day is the easy Darco way to guarantee sweet-smelling, *quality* drycleaning. Start the day with Darco in your filter and you'll have crystal clear solvent all day long—*and* a bigger output of better work.

See your Darco distributor *now*. And write for the Blue Label Darco instruction card.

BLUE LABEL DARCO DC ONCE A DAY *EVERY* DAY

DARCO

DARCO DEPARTMENT

ATLAS POWDER COMPANY

Darco General Sales Offices

60 EAST 42ND STREET, NEW YORK 17, N. Y.

When writing to advertisers please mention The NATIONAL CLEANER & DYER

DEFENSE DATA

Increases to equalize pay where discriminations exist because of sex, race, color or national origin will be approved by the Wage Stabilization Board, as announced in its release No. 140.

General Salary Order No. 6 gives details of the method of making increases to salaried employees in line with increases made to wage earners. The order permits employers to restore and maintain relationships and differentials existing on January 25, 1951, between compensation paid to employees under the jurisdiction of the Salary Stabilization Board and those under the Wage Stabilization Board.

In general, the percentage increase permitted without SSB authorization is figured by comparing the percentage by which base compensation of employees subject to the WSB has been increased since January 26, 1951, with the percentage increase for those under SSB jurisdiction. Salaries of SSB-subject employees may be increased by the difference in percentage, if the latter is smaller.

Under the ruling such increases may be made periodically where warranted by the facts, must be distributed by a prescribed formula, and must be recorded. Study of the order is suggested for affected drycleaners.

# #

Public Service by Drycleaners: At a recent meeting of officials, business and professional men of Griggsville, Illinois, plans were drawn up for a park development in the community. Among the subscribers to the project was Williams Cleaners.

An unusual civic project is the construction of a new hotel in Parsons, Kansas, through stock subscriptions by public-spirited citizens and business firms. Wardrobe Cleaners is one of the subscribers.

Holyrood (Kansas) Cleaners was one of the entrants of floats in a parade sponsored by the local high school.

A Christmas clothes campaign for needy children was conducted by the Cub Scouts of Winnetka, Illinois. Northwood Cleaners helped by serving as a collection depot.

At a dinner recently held by the drycleaning industry in New York to raise funds for a medical center in Israel, guests of honor were Julius L. Kuffler and Julius Miller. Harry Denberg of Spotless Stores and Louis Motzkin, Rite Cleaners and Dyers, were on the committee.

# #

Zoning Restrictions: The city council of Yakima, Washington, has ruled that only stores to receive and deliver drycleaning work will be permitted in limited business zones. All work, including pressing, must be done elsewhere.

A highly restrictive ordinance has been in effect since last spring at Lynbrook, on suburban Long Island in New York. The ordinance forbids any further cleaning plants than those operating at the time the ordinance was passed. Since the terms of the regulation are that only buildings now used for cleaning establishments can be used for that purpose, it has the effect of placing the present cleaners completely at the mercy of their landlords when leases expire.

Possibilities of taking action about the ordinance will be studied by the Neighborhood Cleaners Association of Greater New York.

# #

Unapproved Sideline: Every once in a while we get a report of an unusual sideline which has proved profitable for some enterprising drycleaner. The latest report is of a highly unorthodox sideline which proved highly unprofitable for a drycleaner of Vancouver, B. C. Engaged in the recently much publicized occupation of bookmaking, he was not only fined but lost his license to operate the drycleaning business. Attempts to lease the drycleaning establishment failed when the city turned down the applicants, and the combination drycleaner-bookmaker now finds himself out of business in both enterprises.

# #

Advanced Course in New York: After three years of experience, the New York School of Dry Cleaning, sponsored by the Neighborhood Cleaners Association, is planning an advanced course in spotting and drycleaning, which will probably start in the spring. Among the subjects which it has been found need further study are identification of fibers and weaves, making the best use out of drycleaning supplies and equipment, wetcleaning and bleaching. The course, which will include demonstrations, lectures and practice, will be open to persons experienced in the industry or those who have taken the elementary spotting course.

The school's new pressing course started its first sessions recently.

# #

Drycleaning Sister Act: A column of the editorial page in a recent issue of the Dallas *Morning News* was devoted to a story about the Haney sisters, Hattie and Dee, who operate a quality cleaning plant, ("All-Woman Plant," March 1951 NATIONAL CLEANER & DYER) in that lively Texas city. Written in a humorous tone, the article tells the success story of the two sisters whom Hattie describes as "ignorant country gals."

It appears that Miss Haney must be exaggerating the ignorance of the partners with a retail-store background who have made such a professional and financial success of a high-price drycleaning business.

# #

Standards Near Approval: The Consumer Goods Committee of the American Standards Association has recommended approval of the proposed American Standards for Rayon Fabrics. The standards will now be submitted to ASA's Standards Council for final disposition. The Consumer Goods Committee represents 30 national organizations, including consumers, service industries, producers, retailers and government agencies.

THE WORLD'S FINEST PRESSING SURFACE!

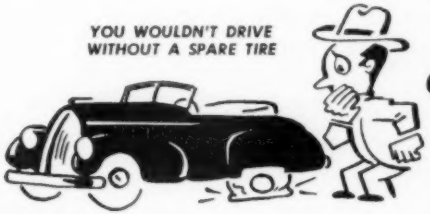
RESTORE NEWNESS TO ALL GARMENTS . . . ALL TEXTURES, ALL WEAVES . . . WITH EXCLUSIVE

Fabric-renewing DAVIS PRESS PLATES

THE ONLY PLATE THAT LIFTS THE NAP AS IT PRESSES!

This is the season when presses need Davis Plates more than ever—to preserve fine tailoring and show off fabrics to best advantage. Davis Plates' exclusive *fabric-renewing* feature revives *any* fabric as you press it . . . and does it faster. Make every press pay you more . . . equip it now with a bright new Davis Plate. And get a set of spares while they're available. (Aluminum is critical!) Your distributor can supply a Davis *fabric-renewing* Plate to make every press you own a *better* press!

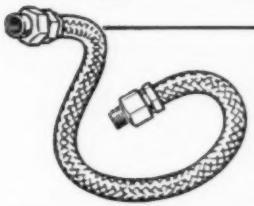
YOU WOULDN'T DRIVE WITHOUT A SPARE TIRE



ORDER A SPARE PLATE NOW!

FOR ALL MAKES AND MODELS OF PRESSES

Hoffman XC05, XC07, Pantex 45, New York 42 and other 36" to 46" models	$14.85
Mushroom models	11.00
47" to 54" models	19.25



Don't take chances! Keep a spare set of Davis Uniflex Leak-Prufd Hose on hand, too!

BRONZE . . . FLEXIBLE . . . TROUBLE-FREE

ORDER FROM YOUR SUPPLIER TODAY

The hose with the fitting that's LEAKPROOFED

Your cheapest insurance against a press shut-down is a spare set of Davis Hose.

For HOFFMAN Presses, Type MF22 . . . $5.80

Other sizes to fit all makes and models of laundry and dry cleaning presses.

Davis® SPECIALTIES, INC.

MANUFACTURERS · CHICAGO 24

© 1951

When writing to advertisers please mention The NATIONAL CLEANER & DYER

the STRONG SOAP SYSTEM *is Old Stuff with*

SOLTEX

and Instructions have been in our Soltex Folder for Years

The Strong Soap System is also perfectly adaptable with our TEXSOL or HYDROL. Send for instruction folder today which gives a simple system THAT WORKS without odor, filter or distillation difficulties, and the cleaner is not confused with unnecessary technicalities.

THE LOW COST WILL SURPRISE YOU

SOLTEX • TEXSOL OR HYDROL

ALL 3 HAVE OTHER ADVANTAGES IN ANY METHOD OF DRY CLEANING

- Usable with or without prespotting
- Contain practically no water
- Water is added to fit the job
- You know how much water is used
- They make low cost conventional prespotters
- They make low cost leveling mixtures with solvent
- They make it possible to size in dry cleaning
- They eliminate wet cleaning of pants and other washables

Check These Low Prices

SOLTEX

55 gal. drum	Per Gal.	$1.30
30 gal. drum	Per Gal	1.40
15 gal. drum	Per Gal.	1.50

TEXSOL

55 gal. drum	Per Gal	1.30
30 gal. drum	Per Gal.	1.40
15 gal. drum	Per Gal.	1.50

HYDROL
(Concentrate)

1 case (4 gals)	Per Gal.	3.75
5 cases (20 gal)	Per Gal.	3.55
5 gal. can	Per Gal.	3.45
15 gal. drum	Per Gal.	3.35
30 gal. drum	Per Gal.	3.25
55 gal. drum	Per Gal.	3.15

RIVERSIDE

RIVERSIDE MFG. CO.
4919-27 CONNECTICUT ST.
ST. LOUIS 9, MISSOURI

When writing to advertisers please mention The NATIONAL CLEANER & DYER

DIGESTIT

A CONCENTRATED DIGESTIVE AGENT

FREE SAMPLE

Sent anywhere in the United States. Write today on your stationery and mention your supply house.

You Will Probably Save $2.00 to $3.00 per Pound by Using this Fast Acting Digestive Agent! Gives Excellent Results in Spotting or Bath Treatment! Harmless to Colors that Will Stand Water.

CHECK THESE LOW PRICES

1 lb. jar ..... per lb. $2.00
6 1-lb. jars..... per lb. $1.60
10 lb. jar ..... per lb. $1.15
4 10-lb. jars.. per lb. $1.10

HEXAMO

A OIL AND GREASE REMOVER

FREE SAMPLE

Sent anywhere in the United States. Write today on your stationery and mention your supply house.

HEXAMO IS AN OUTSTANDING PRODUCT FOR PAINT, OIL AND GREASE REMOVAL, ALSO HIGHLY EFFICIENT ON OXIDIZED OIL STAINS, LIPSTICK, SHOE POLISH ETC.

Rinses out completely with solvent or water

CHECK THESE LOW PRICES

1 Gal. Bottle $3.30
1 case (4 Gal. Bottles) Per Gal. $2.95
5 Cases (20 Gallons) Per Gal. $2.65

RIVERSIDE

TIME TESTED RIVERSIDE PRODUCTS

. . . Made by The Oldest Exclusive Manufacturer of Dry Cleaning Chemical Products In The United States

WETSPO

A PAINT, OIL AND GREASE REMOVER

(Formerly called Wett Spotter)

FREE SAMPLE

Sent anywhere in the United States. Write today on your stationery and mention your supply house.

NOT REALLY A WET SPOTTER . . . BUT A PAINT, OIL AND GREASE REMOVER THAT WORKS WITH AND RINSES OUT WITH WATER.

WETSPO is a great help in board spotting and particularly during wet scouring to remove Paint, Varnish, Tar, Wax, Grease, Leather Stains and many others. You will be surprised at the effectiveness of WETSPO

CHECK THESE LOW PRICES

1 Gal. Bottle $3.20
1 Case (4 Gal. Bottles) Per Gal. $2.85
5 Cases (20 Gallons) Per Gal. $2.55

RIVERSIDE

R-G-F

RIVERSIDE GENERAL FORMULA

FREE SAMPLE

Sent anywhere in the United States. Write today on your stationery and mention your supply house.

R-G-F is an unusual ink remover and covers a wide range in removing many other difficult stains with safety to fabrics and maximum safety to colors. R-G-F is normally diluted with an equal amount of water for general use which is very economical and you will probably pay much less for R-G-F than for what you are now using —

CHECK THESE LOW PRICES

1 Pint Bottle $1.75
6 Pint Bottles per Pt. 1.40
1 Gal. Bottle 8.00
1 Case (4 Gal. Bottles) Per Gal. 7.65

RIVERSIDE

PEE-VEE

A HIGH QUALITY LACQUER REMOVER

FREE SAMPLE

Sent anywhere in the United States. Write today on your stationery and mention your supply house.

PEE-VEE IS AN UNEXCELLED PRODUCT FOR THE REMOVAL OF LACQUERS, FINGER-NAIL POLISH, AIR-PLANE GLUE, ETC.

Fast acting, easily rinsed, safe to all natural fibers, acetate and other rayons.

CHECK THESE LOW PRICES

1 Gal. Bottle $3.50
1 Case (4 Gal. Bottles) Per Gal. $3.15
5 Cases (20 Gallons) Per Gal. $2.85

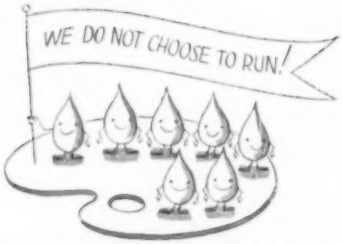
RIVERSIDE

RIVERSIDE

RIVERSIDE MFG. CO.
4919-27 CONNECTICUT ST.
ST. LOUIS 9, MISSOURI

What every carpet cleaner should know about Bigelow's KARPET-KARE

KARPET-KARE is a new, liquid detergent made especially for on-location carpet cleaning. When used according to the correct Bigelow-taught method—it gives you all these amazing advantages . . .



KEEPS COLORS FROM RUNNING OR FADING.
YOU KNOW WHAT A BIG PLUS THAT IS.

NO UNPLEASANT ODOR WITH KARPET-KARE!
NO RESIDUE TO INVITE MILDEW OR RESOILING.

KARPET-KARE WILL NOT SHRINK FIBERS!
SO PERFECT FOR WALL-TO-WALL INSTALLATIONS.

FAST-DRYING! SAVES FUSS AND MESS! SAFE, SURE KARPET-KARE REALLY REVOLUTIONIZES CARPET CLEANING!

BIGELOW-SANFORD CARPET CO.

140 Madison Avenue, N. Y. C.

NEW DEALERSHIPS OPEN IN SEVERAL TERRITORIES!

If you have a fully accredited cleaning establishment and are interested, write for further details to Department K, 140 Madison Avenue, New York 16, N. Y.

When writing to advertisers please mention The NATIONAL CLEANER & DYER

-for foolproof proven efficiency

There is no substitute for PRE-MARKED STRIP-TAGS!

$3.30 BOX (white)
$3.50 BOX (colored)
1,000 strips per box
Each box numbered from 001-1,000

★ *Instantly revolutionizes marking methods!*
★ *Saves 50% in marking and assembly time!*
★ *Eliminates transposed numbers . . . . . claims!*
★ *Clear Bold Numbers . . . No eye strain!*
★ *Ink damage impossible - Throw your ink away!*
★ *Tear them off - staple them on . . . that easy!*
10-BRIGHT COLORS: *numbers 1 to 30 in each color 300 color number combinations*

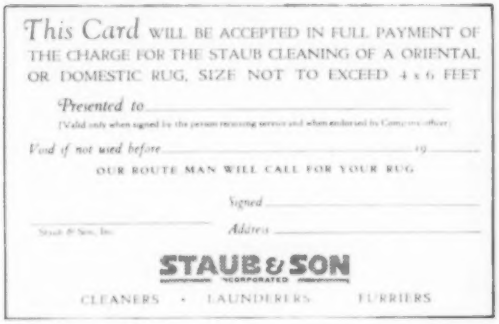
Ask your distributor or write
PRE-MARKED STRIP TAG CO.
3232 INDIA ST., P. O. BOX 2430
SAN DIEGO, CALIFORNIA

*-for best results use **both** tags together!*

Also, the NEW -
20 SPECIAL INSTRUCTION **TAGS** in six bright colors -a color for each dep't.
Let **TOKEN-TAGS** show you how to do it right the first time.

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Card Helps Charity


This Card WILL BE ACCEPTED IN FULL PAYMENT OF THE CHARGE FOR THE STAUB CLEANING OF A ORIENTAL OR DOMESTIC RUG, SIZE NOT TO EXCEED 4 x 6 FEET

Presented to _____

(Valid only when signed by the person receiving service and when endorsed by Company officer)

Void if not used before _____ 19 _____

OUR ROUTE MAN WILL CALL FOR YOUR RUG

Signed _____

Address _____

Staub & Son, Inc.

STAUB & SON
CORPORATED

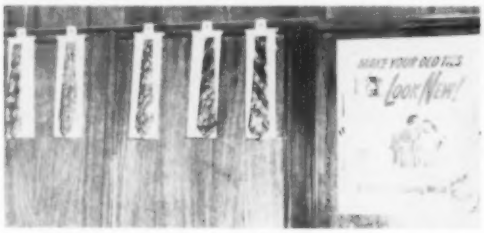
CLEANERS • LAUNDERERS FURRIERS

The countless requests for contributions or prizes at various church, charitable or fellowship affairs prompted Ray Staub of Rochester, New York, NICD's ex-president, to prepare the card shown here. They can be provided in any number desired by the organization's solicitor, for use as door prizes, bridge prizes, or whatever may be needed.

When the date of the affair is learned, the required number of cards is stamped with a date stamp on the line reading "Void if not used before ....." Usually a two-week period is allowed, depending somewhat on the season and the number of cards given out.

Use of these cards has helped in greatly reducing requests for cash donations or program advertisements.

Display Sells Neckties



TIE-IN PROMOTION that boosted sideline started with store display

For National Tie Week, V. R. Owens had some of his own ties cleaned, wrapped in cellophane and hung in the stores of his Fulton, Kentucky, and Union City, Tennessee, plants.

Customers began talking about the ties, and tie volume doubled in ten days. This item had never been pushed but because of the impressive increase Mr. Owens decided to go after tie cleaning. Necktie decals were ordered to go on the company's trucks. Large display ties were made up and hung in front of both plants, and tie cards were used as pocket inserts.

The result has been a whale of a tie-cleaning volume for OK Laundry & Cleaners. More important, the tie promotion has brought new cash-and-carry drycleaning customers, and routemen at both plants find the new tie service a good door opener.

Store Signs Changed Weekly

FREQUENTLY CHANGED SIGNS at Ellis Cleaners are placed above storage cabinets on two sides of large store

FAVORITE SIGN is admired by owner Cereme Ellis

The same people come to the plant store or branch week after week, and get tired of looking at the same decorations and signs, according to Cereme Ellis. For his Ellis Cleaners at Biloxi, Mississippi, he has really gone into the poster angle of advertising.

For his poster display Mr. Ellis has two dozen silvered frames, which cost $5 each with one sign or display card, and $2 for each additional card. The posters are done on cardboard and easily replaced. Mr. Ellis works on the design and copy with the local artist who does the posters.

All cards have a varying mottled gray background, with black and red lettering in a square outlined in orange. The cards are 20 by 30 inches.

"Customers soon learn," Mr. Ellis said, "that we change the signs each week. When they come in they read them all to see what we have. We think frequent changing is the best way to be sure the cards will be read."

However, there is always one sign on each wall carrying Mr. Ellis's favorite message, "Tell us if we don't please you." He says customers like to have you say it to them over and over again.

BIG VOLUME "BUSINESS BUILDERS"

Troy OFFERS COMPLETE LINE of Drycleaning Equipment

Now is the time to replace obsolete equipment and plan for added volume. Turn to Troy, whose 85 years of experience is your assurance of satisfaction. Troy's complete line includes the Electroclene unit (above), tailor presses, boilers, air vacuums, puffers, spotting boards, wetcleaning equipment, and all necessary accessories.

LET TROY HELP YOU PLAN

The layout pictured above is but one of the many possible plant arrangements. Troy engineering service is available without charge to help you plan the most efficient layout for your plant.

WRITE FOR DETAILS AND PRICES

TROY LAUNDRY MACHINERY

DIVISION OF AMERICAN MACHINE AND METALS, INC.
EAST MOLINE, ILLINOIS

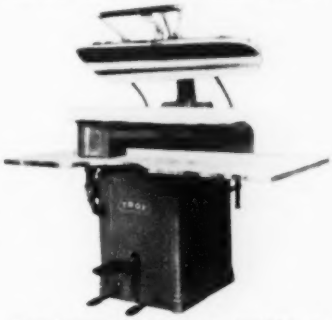
Sales and Service Offices in

NEW YORK • BOSTON • ATLANTA • WASHINGTON, D. C. • CHICAGO
LOS ANGELES • SAN FRANCISCO

TROY ELECTROCLENE DRYCLEANING UNIT

For use with all types of petroleum solvents. Unit illustrated has capacity of 60 lbs. dry weight per load. Left to right, Troy Electroclene Washer, Troy-Olson Filter with vacuum button trap (behind washer), Troy Minute Man Extractor, above-ground tanks (behind extractor), Troy-Mercury Tumblers. Included in the unit, but not visible, are supply, circulating and still pumps and Troy-Olson Still with moisture separator.

With petroleum solvents in plentiful supply and readily available, this Troy Electroclene Drycleaning Unit is ideal to install NOW. Available with capacities from 45 lbs. to 200 lbs. dry weight per load. All machines are individually motor driven and have explosion-proof motors and controls plus complete safety features.



Troy-Loyal tailor presses are available in 21 different models for finishing all types of garments.

When writing to advertisers please mention The NATIONAL CLEANER & DYER

When writing to advertisers please mention The NATIONAL CLEANER & DYER

YOU ARE LOOKING

at the most important advancement in finishing methods in the history of the cleaning industry

See it Demonstrated . . . Consult your Jobber or Write Direct

EXCELSIOR MACHINERY COMPANY

1454 RANDOLPH ST. • DETROIT 26, MICH.

Distributors in Principal Cities

The 2 LEADING DRY CLEANING

note its **OUTSTANDING ADVANTAGES !**

- **C-50** is approximately 6 TIMES as strong as ordinary Dry Cleaning Soaps
- **C-50** is 40% less costly
- **C-50** will pick up 25 TIMES its own weight of water and still disperse in the solvent
- **C-50** can be used with Stoddard Solvent or 140 F and chlorinated solvents
- **C-50** is non-inflammable
- **C-50** is more economical all the way around
- **C-50** solves storage. Packed in gallon jugs. No drums to take up valuable space

USE C-50 ...THE *MODERN WAY* TO HANDLE DRY CLEANING SOAP OPERATIONS!

NU-PRO MANUFACTURING CO.
2918 WASHINGTON AVENUE • ST. LOUIS 3, MO.

ORDER TODAY AND BILL THROUGH YOUR NU-PRO JOBBER

When writing to advertisers please mention The NATIONAL CLEANER & DYER

SOAPS *that* LEAD *with the* INDUSTRY

TOP RESULTS WITH ECONOMY

NU-TEX

LIQUID FILTER SOAP

HIGHER SOIL REMOVAL

SPEEDS PRO-DUCTION

INCREASES PASS-UPS

MAY BE USED WITH WATER

BUILDS NO FILTER PRESSURE

IS EASILY REMOVED FROM SOLVENT BY ANY RECLAMATION SYSTEM

SEE US AT
Booth No. 2
N.I.C.D. Convention
St. Louis Feb. 7-9

A TOP QUALITY SOAP FOR TOP RESULTS . . .

Industry-wide, NU-TEX is a preferred dry cleaning soap which gives desired results for the six good reasons enumerated above. NU-TEX, in addition, is also an excellent hand-brushing soap. There is none other so adaptable, so efficient, so fast, so economical to use. It is among America's top favorites. *(Packed in 5, 15, 30 and 50 gallon Drums.)*

ORDER TODAY AND BILL THROUGH YOUR NU-PRO JOBBER

NU-PRO MANUFACTURING CO.
2918 WASHINGTON AVENUE • ST. LOUIS 3, MO.

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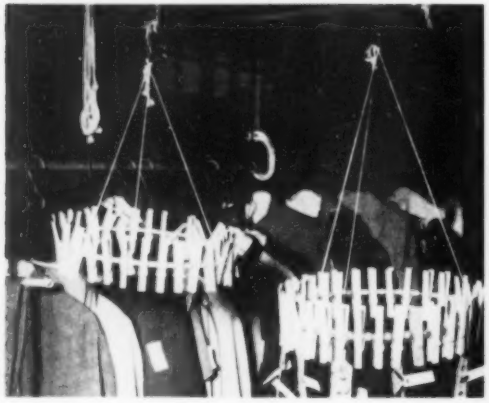
GADGETS and GIMMICKS

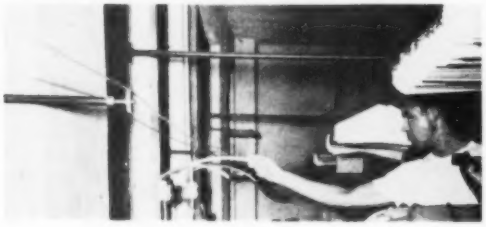
Belts Hung From Ceiling



Spring-type clothespins attached to a circle of wire clip those easy-to-lose belts at Frederick's Cleaners in Valley Stream, New York. The pins are separated by small wooden knobs.

Two of the gadgets are attached to a Venetian-blind pulley apparatus. When a belt is wanted the rod is lowered, the belt removed, and the rest pulled up out of the way of operations on the floor.

Hanger Conveyor for Finishers



At H. J. Cook Company in Los Angeles, all garments come to the finishers on wooden hangers; the finished garments go on covered wire hangers. Formerly the finishers had to carry the emptied wooden hangers 50 feet across the room to the hanger rack.

Last Christmas Bud Bayler, one of the owners, gave his son a Meccano building set. The more he thought about the hanger cartage, the more he became convinced that his son was not old enough to appreciate a real honest-to-goodness electric motor. Besides, Bud needed the motor to make a rope conveyor so the finishers could just reach over to the wall, hook the wooden hangers on a rope belt and forget about them. The belt would take them to the end of the room and slide them on to a storage rail.

The conveyor is up and works like a clock with an endless 100 feet of sash cord. The small motor keeps it going.

Everything is dandy except that Junior is kicking like a bay steer because the derrick he and his dad built out of the Meccano set has to be manually operated.

Fast Curtain Iron

RUFFLES PROTECTED by a shield that can be removed when not needed. They were finished first on an egg or a heart-shaped puff iron

Drycleaning curtains can be finished by two operators in a fraction of the time a single operator requires, with a gadget devised by Jack Berberian of Arlington Dye Works in Arlington, Massachusetts. It looks like a metal sawhorse connected to the steam line.

The top of the sawhorse, standing about 4 feet from the floor, consists of a chrome-plated pipe between two chrome-plated rods. The lower side of the pipe has small holes every inch or so for the whole length. Thus, when the steam is on, a small cloud of steam curls around the pipe.

Each of the two operators, working in unison, inserts a metal rod in the hem or casing of a curtain. They then stand on each side of the sawhorse, one of them holding her end of the curtain as close as possible to the pipe. The curtain is held out taut with both girls bearing down slightly. Then the operator on the short end backs slowly away from the sawhorse as the other girl moves in. The chrome surface of the pipe serves as an iron, and one pass over it does the job.

The rods are removed and the curtains folded and folded again lengthwise. With the girls still at each end they give a tug on each fold to lay the fabric smoothly. Then one girl puts the curtain on a hanger while the other picks up the next curtain.

We've been kinda long-winded. The two girls can do a curtain faster than we can tell about it. If there were pin holes in the curtain from the last stretching, they are all smoothed out. If there is no hem, a stick with a strip of carding wire along one side is used to hold the curtain.

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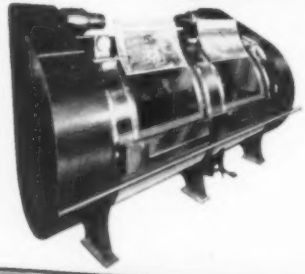

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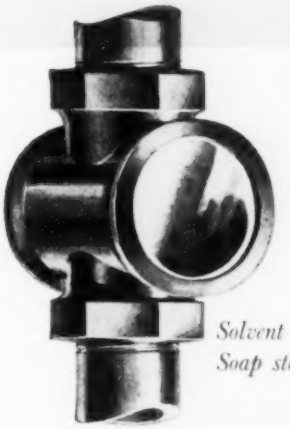

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Your local Pennsalt man has full information on Flo-Klear, and will be glad to come in and demonstrate Flo-Klear's advantages for you. Call him, or write: Dry Cleaning and Laundry Dept., Pennsylvania Salt Manufacturing Company; *In the East:* 1000 Widener Bldg., Philadelphia 7, Pa.; *In the West:* Woolsey Bldg., 2168 Shattuck Ave., Berkeley 4, Calif.

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know what you're getting . . . insist on

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ARROW SPONGE PAD*

*Reg. U. S. Patent Office

Patent No. 2482412

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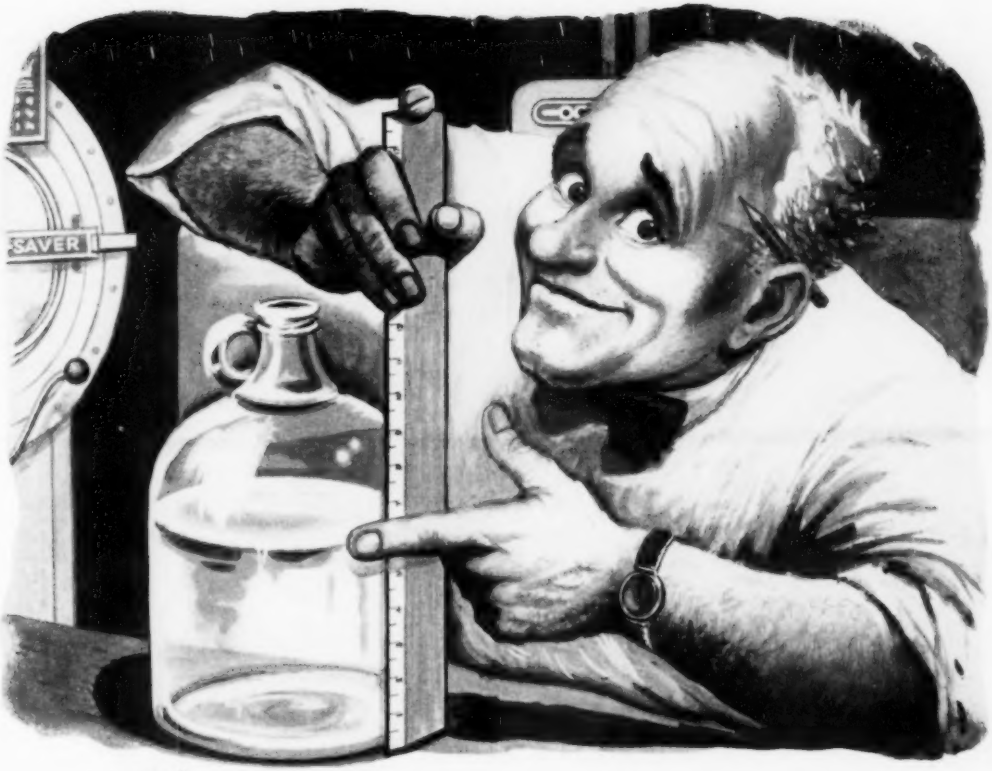

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Detrex Uses Perchlorethylene—No Fire Hazard!

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"Aware-ness"

"You must be aware" was the theme song of Jeddu Krishnamurti, a popular Hindu philosopher of a generation ago. You must distinguish, he said, between fact and prejudice, between reality and wishful thinking. You must have the constant urgent curiosity of a small child, not only toward the world around you but concerning yourself and your place in that world. Then only can you be assured that it is the world that is out of step and not "Johnny."

We lose that eagerness to learn about ourselves as we approach adulthood. We become too determined to prove that we are what we think we are, and that the world is what we think it is or would like it to be.

During and following the last war King Whitney of the Personnel Laboratories set up a number of employee-testing programs in Eastern drycleaning and laundry plants. Most of them were quite successful, but a few that should have been good quickly petered out. These failures ceased when Mr. Whitney discovered that the cause in each case was the boss's true attitude.

Surprisingly enough, even plantowners who made terrific efforts to get testing programs in their plants proved bad risks. They sought such programs as a last resort but weren't sold on them. Being prejudiced they weren't conditioned to give testing a chance to prove itself. So Personnel Labs started testing the boss first for his subconscious attitudes before even discussing a proposed installation. Now they make fewer installations, but they are all pretty successful.

The point we're trying to make is that every one of those men who paid out good money for a testing program insisted that it was just what he wanted. Every man just as certainly didn't know his own true attitude toward testing. Otherwise, as a good businessman, he never would have "wasted" his money.

Brooding over one's limitations is a very unhealthy pastime. But ignoring them can be even less healthy. We spend thousands on plant layouts, on equipment, on fancy stores and trucks, on sales promotion, on production controls and on incentive systems. Yet, too often, we don't spend even the time on the biggest bottleneck—the boss. Yet when something doesn't work it's a 50-50 chance the boss is at fault in *some* way!

There's always someone handy and willing to tell you your faults—but you are usually justified in considering such a person at least slightly prejudiced. A testing service can give you the straight dope with no punches pulled and no axes to grind. An impartial consultant can do a pretty good job of revealing in what ways *you* are responsible for ineffective operation of a drycleaning business.

Such a "vocational adjustment study" measures your aptitudes, your preferences and your reactions to business or industrial situations. It reveals your strong points as well as your weak ones, and it shows you how to compensate for weaknesses. It also shows in what field you are foolish to strive and would be better off hiring outside help, leaving you to operate to best advantage where you are strongest.

At the same time, a good "vocational consultant" will make suggestions for self-improvement, for strengthening your effective qualities and improving weak ones.

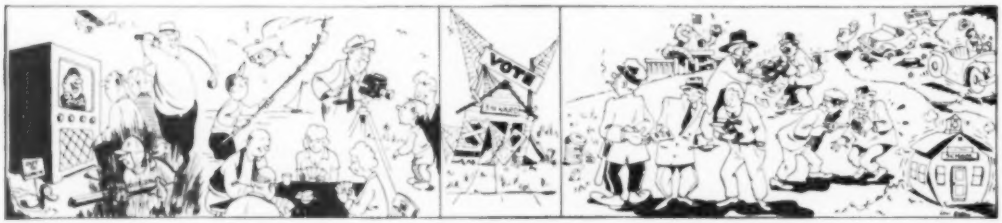
The beauty of a report by a testing firm is that it can be taken home and reread deliberately and calmly at intervals. Points that were glossed over or rejected at a first or second reading begin to sink home six months or a year later, in the light of fresh experiences highlighted by memory of the consultant's analysis.

Psychological testing for executives has been slow taking hold. Some stigma is ascribed to taking such tests by people who lump them with psychiatric examinations. Some people are afraid, openly or subconsciously, of what Freudian complexes might be revealed, completely misunderstanding both the purpose and the scope of psychological testing. Others merely think it costs too much money, forgetting that you must pay for what you get in this world (fees range from 15 bucks to a couple of hundred, depending on the extensiveness of the testing).

Like the field of industrial engineering, psychological testing has been plagued by quacks and by earnest but unqualified blunderers. There are plenty of "suckers" in a nation where astrologers, tea-leaf readers and gypsy fortune tellers thrive.

There are, however, many firms with sound records and wide industrial experience in the field of psychological testing. Many of them are members of the National Vocational Guidance Association. The well-established industrial engineering firms have such a service, or can recommend responsible firms. Most of the big universities and many colleges have similar services.

If you have the will for self-examination by testing, there are plenty of ways.



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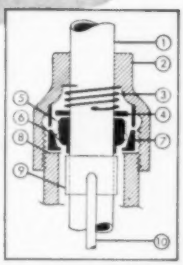
Speeds Delivery to Customers

FEATURING "Griptite"

BISHOP'S NEW SENSATIONAL SELF-ACTUATING RAPID-ACTION BAGGING ROD CLAMP...



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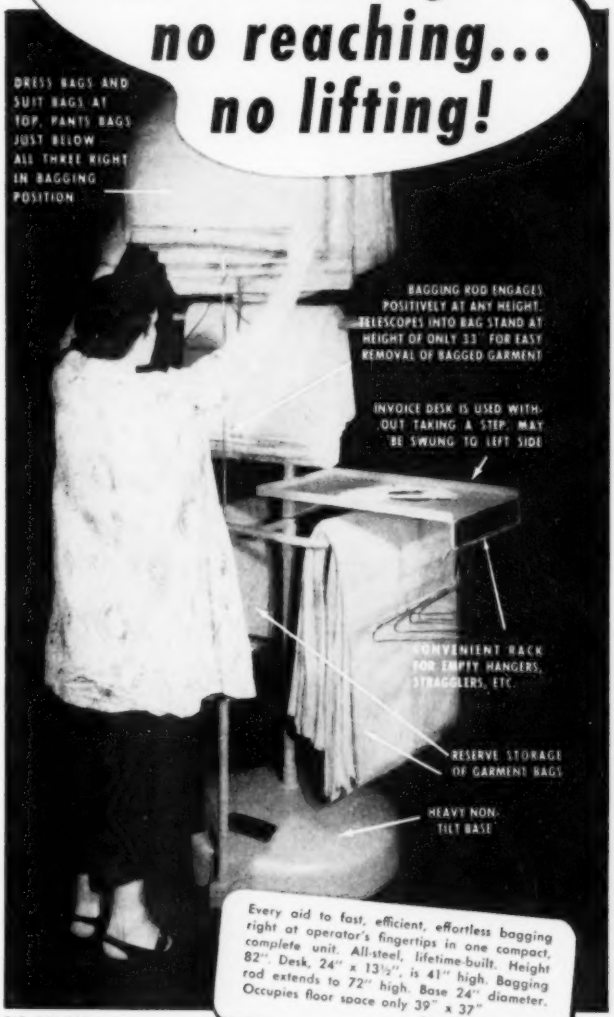

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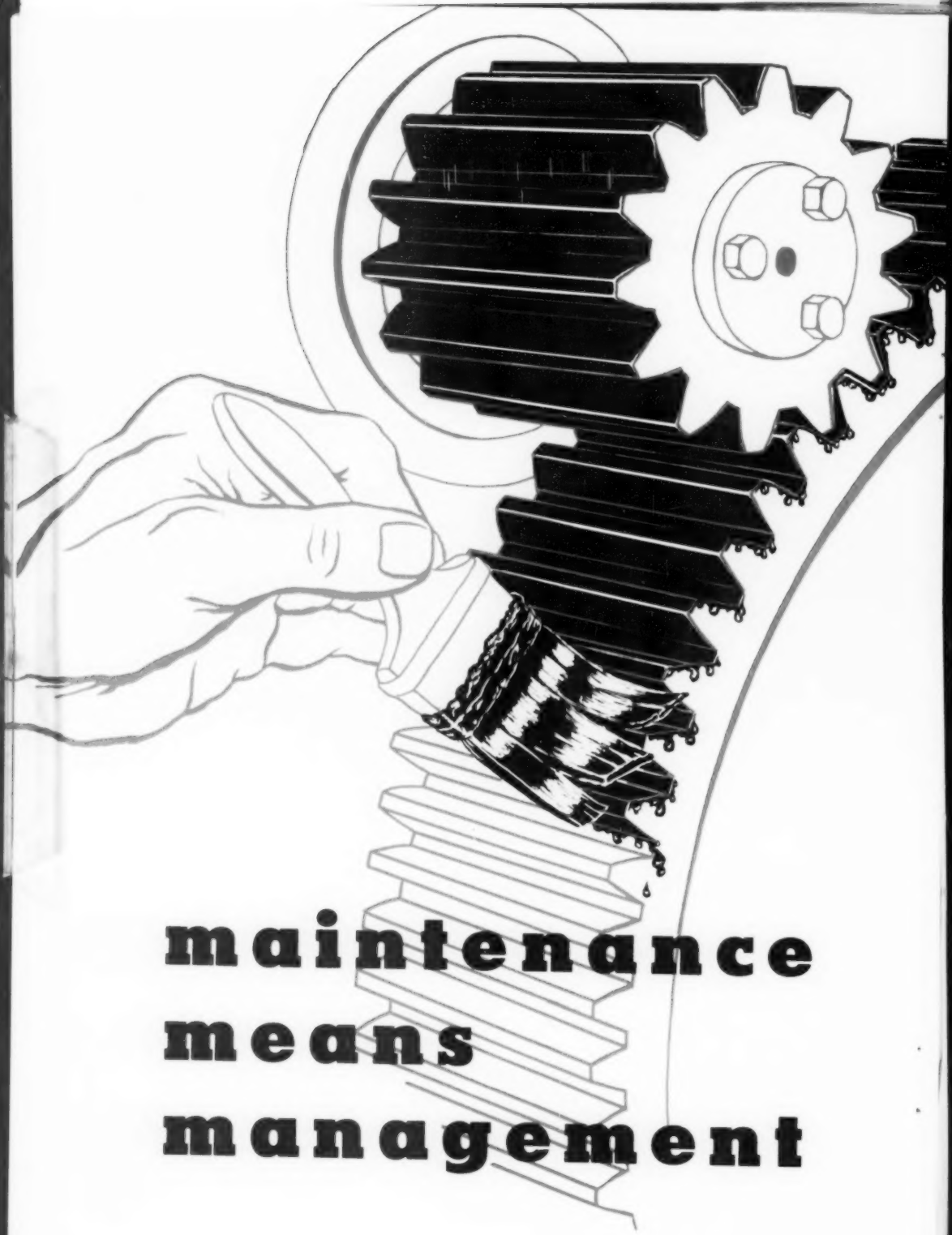
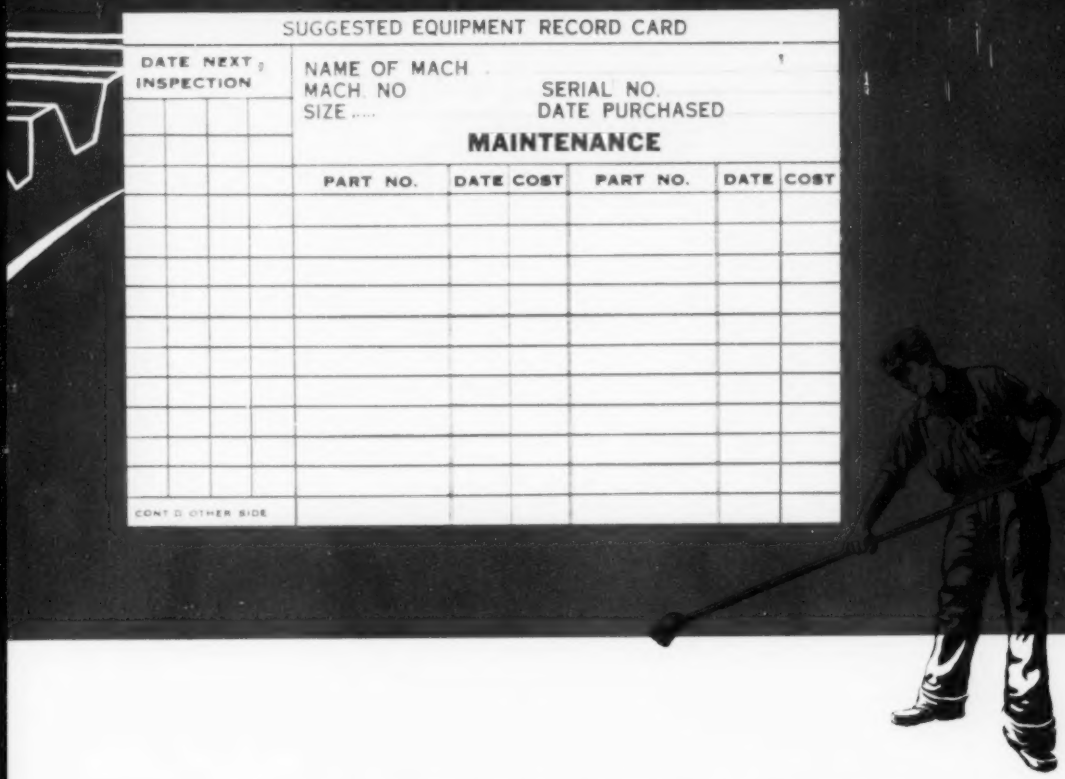


maintenance means management



MAINTENANCE is a management function. By "management function" we mean that the boss must look at maintenance as a separate operation in his drycleaning plant. It has just as much unity, just as much importance, just as much promise of profit to the drycleaner as the problem of training or workflow or public relations. To shrug off maintenance as a small chore is very poor management.

The problems to be settled in running a maintenance program are the same as in managing any other phase of the drycleaning business, or any other business. The boss must decide: *what* the problem is, and *what* is to be done; *what* it should cost; *how* it should be done; *where* it should be done; *who* should do it; *when* they should do it, and *why* it occurred in the first place.

Maintenance can and should be budgeted at the beginning of the year just like any other expense item. In fact, it is much easier to set a cost budget and schedule for maintenance than it is to follow through. To be workable, such a budget must be set up in the same terms the record is kept. It must recognize the three major types of maintenance: *general maintenance* that is done by the clock and the calendar; *direct maintenance* that varies with the volume of business a drycleaning plant is doing; and *irregular or emergency maintenance* that can't be scheduled but can be anticipated and provided for annually as a percentage of the whole budget.

To give system to maintenance in the small business firm, and most drycleaning plants are classed as small firms, at least five things should be provided:

1. Written instructions for repetitive jobs. This enables you to assign such work to unskilled or semi-skilled employees, even when there is a high turnover among such help.

2. A "tickler" for inspection and overhaul. Some method is needed for ensuring that maintenance work is done on time, as scheduled.

3. Cost and history records for each piece of equipment. Analysis of cost and equipment value is impossible without these.

4. Backlog records. Work postponed might be forgotten.

5. Daily work schedules. Workflow must be planned for maintenance as well as for production.

One important purpose of scheduling work for the maintenance crew is to match the work with employees' skills, so as not to waste expensive labor on unskilled jobs, or have unskilled labor mishandling a job that is beyond its skill. Having listed all the jobs that must be done, the next step is to decide what jobs can be done much better by outside specialists than by members of your staff. Also, what work can be done as well or better by your people than by outsiders.

Assign that work immediately to staff members or contract for it outside, according to your findings. This will leave a large part of the program optional. Bearing in mind that none of the work can be neglected, portion out responsibility to plant employees up to the

In the fierce competition for labor today, many plantowners overlook the advantage of a "nice place to work." This refers not only to good housekeeping, nice restrooms, fresh paint, and such things about which editors seem a little fanatical. Workers get satisfaction out of good equipment. They become restless and critical when they have to fight poor equipment.

limit of their time and skill capacity. Then provide for getting the rest done some other way.

It sounds ridiculous to have us point out something as obvious as this! The truth is that because maintenance isn't scheduled deliberately and methodically in most plants, a lot of the work doesn't get done.

By farming work out, hiring high school kids for a few hours a week in the afternoons, or arranging for specialists to do some jobs that could be done by plant employees, as the need arises, management can make sure there is no backlog.

Maintenance Takes Man-hours

When a drycleaner regards maintenance as a regular job, requiring so many man-hours per year, he can schedule work so that productive employees can have longer periods of employment.

Using productive employees for maintenance is not unusual in the drycleaning industry. The difficulty is that, as volume grows and the productive employees have less time for the maintenance work, it tends to be forgotten. Finally volume gets to a point where another employee or two is hired to spot wools or press pants. Immediately the pressure is relaxed. Employees catch up on Friday afternoon again. So they are put back on maintenance. There is always that middle period when maintenance is strictly on a catch-as-catch-can basis.

If the drycleaner knows how many man-hours he needs for maintenance, he knows automatically that as his productive man-hours rise, he must turn to other sources for his maintenance, or it doesn't get done. The time for him to act is when the productive man-hours increase—not when he is suddenly faced with a tremendous backlog of maintenance work.

Manufacturers recommend lengths of time between oilings or greasings based on average operating conditions. *That means a 40- to 50-hour week, in most cases.* When your crew is working lots of overtime the equipment is taking a beating just as much as they are. If, on the other hand, the plant is running a 20-hour week the regular maintenance can be halved in most instances (which is when you should schedule your special maintenance programs).

If your plant is running a double shift, or even around the clock, then regular maintenance should be twice or even three times as often. At least, start with the manufacturers' recommendations, then adjust the intervals on a basis of your experience and differing conditions. But remember, the penalties for lazy maintenance don't usually show up until it is too late.

Most of the routine preventive maintenance jobs fall into groups. Many times it is easier to do these jobs by such groups, rather than by going over each piece of equipment exhaustively before moving to the next machine. In this way fewer tools, supplies and parts need to be carried around. More of the work can be done without taking equipment out of production.

Such groups of maintenance jobs would include: traps and valves; electric motors and electrical controls; belts and chain drives; oil cups, grease cups and nipples; tightening nuts, bolts and screws; checking filters for steam, water, solvent, oil and air; leaks of any kind; etc.

Another advantage in grouping this way is the ease of deciding which routine jobs can be done by unskilled workers, which by engineers or mechanics, and which should be farmed out.

Preventive maintenance calls for keeping certain detailed records and for studying and applying the information on them. The record of service for each piece of equipment includes breakdowns, repairs, labor, lubrication and cleaning history, remodeling, etc. Periodic analysis of these records will show trends and the need for schedule changes.

The maintenance manual, therefore, should be in looseleaf form so that changes can be substituted immediately. It is not unusual for proposed changes to be overlooked because of delay in putting them in writing in the manual.

Responsibility Comes From the Top

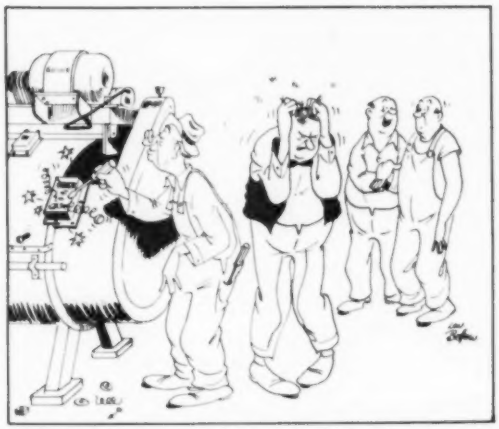
Responsibility for maintenance must be definitely delegated to someone as close to management as possible.

The first step in setting up a maintenance program is to tour the plant with key employees, checking with production workers on aspects of their own departments. No matter how bitter the pill, list everything necessary to put equipment, buildings and utility accessories in top condition. Decide what has to be done, and decide on a time for doing it.

Set up regular times for the preventive maintenance work. Arrange for corrective or repair work. Then re-

Much of a drycleaner's advertising program is wasted if his plant isn't shipshape. Like the "unhappy ship" of Navy tradition, fouled up plant and facilities result in poor morale, poor work and sour customers.

". . . Dust!"



"We can buy a control at half the cost but he doesn't want to make his old man mad."

pairs and replacements that can't be made at a predictable time should be subject to review at intervals of from three to six months. By constantly keeping such needs from getting buried, the way of fulfilling them somehow comes easier and quicker.

Daily inspections for specific purposes should be made part of a foreman's duties. In the realm of accident prevention, for instance—and accident prevention is one product of good maintenance—"the price of safety is eternal vigilance." The basis of vigilance must be knowledge of what to look for.

For instance, under safety maintenance in the foreman's manual of the E. L. Watkins Co., Portland, Maine, points of inspection would be:

(a) splinters and loose boards in the floor
(b) clear aisles
(c) tools in proper condition (guards in place, etc.)
(d) electrical hazards
(e) ladders in the right places
(f) exits open, stairways clear, handrails secure
(g) fire hazards
(h) elevators
(i) ventilation

Attitude of Employees

The seriousness with which your employees take your maintenance program depends entirely on the seriousness of your own approach to it. Your carelessness will breed their carelessness; your insistance on good maintenance will keep their attention focused on good maintenance.

The workers should not be encouraged to feel that ticking off a checklist of maintenance chores is the important thing. These men should be held responsible for the condition of equipment in their charge. This includes not only routine care but reports on state of wear and performance.

It frequently becomes necessary for a plantowner to "sell" record-keeping and scheduling to an engineer or a maintenance crew that is typically strong-minded and restive under control of any kind. It helps in such selling to show the equipment histories to the maintenance personnel and keep them "in the know" about how they are doing and what their problems actually are from the cost viewpoint.

Hit-or-miss maintenance can be compared to installment buying. For the moment the need for a lot of cash is eliminated, but in the end the total cost is greater.

Planning Repairs

"Repair" and "maintenance" are two different things, which shouldn't be confused. A repair must be made when equipment won't work, or won't work properly. Maintenance is *keeping* a machine in good operating condition. In theory the purpose of maintenance is to prevent repairs or, more realistically, to allow you to make repairs when you want to and not when you have to.

There are a number of degrees of urgency about repairs. Only one can't be solved by careful planning. In their order of urgency they are:

1. Breakdowns
2. Where preventive maintenance and inspection show need
3. Equipment is giving poor production
4. Hours of service have reached the overhaul point
5. Equipment scheduled for overhaul at next slow period
6. Equipment released by unscheduled lull

The secret of effective planning is listing repair work in order of priority, together with estimated man-hours required. If, for an extended time, item 3 and item 6 can't be kept in balance, it is time to call in extra help, or your plant and facilities are headed on the downgrade. "Extended time" means not more than three or four weeks, as in the spring peak season.

Kettering, famous engineer and troubleshooter for General Motors, was often quoted as saying, "Let the problem be the boss!" Don't force a problem into lines *you* think it ought to take. Study what the needs are and *then* try to supply them as effectively and cheaply as possible.

There is no such thing as "not enough time for maintenance"! Preventive maintenance means to "prevent" *costly* breakdowns and repairs. The whole point of maintenance is not only this element of prevention but also an effort to substitute work planned for convenience, in place of work rushed through in an emergency, usually at time-and-a-half for overtime.

The old boys have the proper philosophy in such sayings as "a stitch in time saves nine," "just as easy to do it right the first time" and "a place for everything and everything in its place."

Drycleaners know the information set forth in these pages! The real question is, what do they do about it? # #

A few simple questions show the indirect values of good maintenance:

How much "down time" did your equipment involve last year—what is it worth to avoid it?

What is it worth to reduce fatigue among productive workers?

If your cleaning room, like many, resembles a dungeon, does the cleaner resemble the keeper or the prisoner?

While you read this, could you entertain a plant visitation without squirming?

Would you mind if any of the visiting ladies stepped into the restroom?

What is the psychological effect of a rattletrap truck on your driver's selling efforts?

Do you think breakdowns are "bad luck"?

Costs Show "A Stitch in Time Saves Nine"

CAN YOU GO OVERBOARD on a maintenance program? Certainly! It is more likely, however, that the average drycleaner never fully sees his maintenance costs against the savings they make. Unless he changed his maintenance policy drastically on a given day, and kept good cost records both before and after the change, he has no way of judging the effect of such a change.

Consider how many cost accounts are either completely or partially involved with maintenance, according to the new uniform account classifications arrived at by the National Accounting Council of the Textile Maintenance Industries. The complete maintenance accounts are:

No. 33. Repairs and Maintenance—Power Plant
43. Repairs and Maintenance—Building
53. Repairs and Maintenance—Machinery and Equipment
51. Maintenance Wages

The following accounts have varying amounts of maintenance included. Some, such as delivery equipment operating expense, would be hard to divide into items that are strictly operating expense and those that are strictly maintenance:

No. 61. Indirect Labor (overhead)
62. Superintendence—Plant (overhead)
63. Supplies and Expenses—Indirect (overhead)
73. Delivery Equipment Operating Expense
76. Store Salaries and Expense
83. Office Expense

Okay, that's where your money goes. You know *that* dough was spent for maintenance and housekeeping. We find it hard to draw a sharp line between maintenance and housekeeping, so we treat them together.

How about some of your expenses that don't have the "maintenance" label on them? See if some of the following costs don't increase if you cheat on maintenance:

No. 12. Identifying, Assembly and Packaging Labor. —Jammed, worn or dirty marking machines; leaky pans; awkward bagging devices; sluggish sorting reels; dirty, sliver-ridden tables.

No. 13. Wages of Cleaners, Spotters, Wetcleaners.—Slow machines, jammed doors, dirty equipment, defective pumps and automatic controls.

No. 15. Wages in Finishing Department. — Wet steam, dry steam, no steam, no vacuum, no air, rust, dirt, rips, tears, confusion, hot, cold, wet, drafty, dark.

No. 22. Identifying and Packaging Supplies.—Wasted every time machinery doesn't work right, or supplies drop on floor.

No. 23. Cleaning Supplies.—Same as No. 22, only it goes double.

No. 25. Finishing and Repairing Supplies.—Ditto.

No. 31. Power Plant Wages.—Nursing a sick boiler.

No. 32. Fuel-Power Plant.—Cost of fuel used. And how!

No. 34. Depreciation.—Power Plant.—Depreciation on all power plant equipment, wells, heaters, softeners, storage tanks, compressors, heat reclaimers, return systems, etc.—may they last until you have saved the money to buy more!

That's enough of the accounts to give the reader the idea. It's a good spot to stop, too, on the subject of "depreciation."

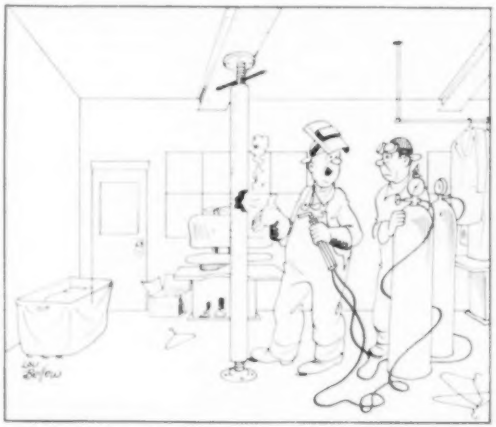
Maintenance vs. Depreciation

Please note a great difference between "maintenance" and "depreciation." Maintenance is keeping the drycleaning plant and all its equipment as close to their brand-new condition as possible. This brand-new condition, after a short break-in period in some cases, is the point at which such facilities are most efficient. This brand-new condition is also the point at which facilities have their greatest worth.

This worth is a large part of your plant's "net worth," which might be described as your plant's market value. Aside from the need to maintain the most efficient production possible, it is worth considerable to keep up the plant's net worth by complete and careful maintenance.

If you overlook maintenance and permit the value of a plant or its facilities to deteriorate the slightest bit, you are only kidding yourself about your profit picture. You are exchanging a slightly larger profit right now for a slightly less valuable cleaning plant forever—unless you are willing later on to plow that profit, plus more, back into the plant to recoup. Milking the business is what some people call it!

Depreciation is sorely misunderstood and misused. **Depreciation has nothing to do with the equipment actually in your plant.** It is the money you are saving to



"Direct orders from the boss . . . he says 'Cut down the overhead even if it kills us!'"

buy more equipment (or building and facilities) when your present equipment is worn out. Their relationship might be expressed in the equation:

Machinery plus Maintenance equals Depreciation plus Trade-in Allowance

A drycleaner should distinguish between "repairs" and "inventions." Time put in on inventing gadgets isn't a maintenance cost. It really should be charged the same as equipment purchased.

The construction of gadgets in a plant can hardly be justified so long as there are maintenance jobs to be done. There is no saving in making a gadget "twenty dollars cheaper than you can buy it" if the mechanic's time was worth twenty dollars, and four leaky valves have wasted fifteen dollars worth of steam for lack of attention.

Keeping cost records on various items of equipment is the only way a manager can really know what each costs him. This includes both maintenance labor and repair labor, apportioned to each machine. It is easy to damn one machine because you vividly recall two big expensive breakdowns. Yet you overlook almost daily adjustments and replacements of gaskets or packing on some other item. But the latter might add up to double the cost of the first machine within a year.

When maintenance and repair costs are added to an original outlay for equipment, they often change completely a drycleaner's view of the value of the equipment. This is particularly true when used with production records that give costs per piece.

If careful accounts are being kept by a drycleaner on each of his trucks, the record of miles per breakdown throws a spotlight on the value of good maintenance. A "breakdown" means the truck actually is out of service because of need for repairs. It doesn't include routine check-ups.

Other costs to keep and be compared are miles per gallon of gas, miles per gallon of oil, miles per set of tires, miles per dollar of payload, and miles per day. Also stops per day. These can be compared further on the basis of *cost* per gallon, quart, etc., which gives a very sensitive record of how trucks are performing.

A small drycleaning plant that is spreading its skilled preventive maintenance too thin may be able to solve the problem by renting trucks. This assures competent care of the delivery fleet. At the same time it permits the maintenance man to concentrate his efforts on keeping the plant in tiptop condition.

You may save little directly by exchanging ownership for rentals. The savings are in tightening up a hundred wasteful spots that have soured through not getting enough maintenance at the right time, and have affected production efficiency in the plant.

There is no point in our belaboring the effect of proper maintenance on costs in all departments. It is obvious that maintenance always pays when it prevents lost productive time, particularly when the manager has to pay for idle time and then time-and-a-half for overtime.

There are many hidden ways in which maintenance pays. Stopping leaks is obvious. Does a cleaner realize he can save up to 30 percent on his light bills by keeping his walls painted? Maintaining guards and safety appliances hold his insurance premiums down in most states by maintaining lower accident experience, besides saving lost labor.

As a final note, check into your claims and do-overs. See how many of them arose because of poor maintenance. Are dresses pinched in loose washer doors, soft wools snagged on rough marking tables, whites smeared with carbon-filled grease, etc., etc.? Show us a plant with few complaints and do-overs, and the odds are we'll find a good maintenance program as well. # #

Planning and Layout

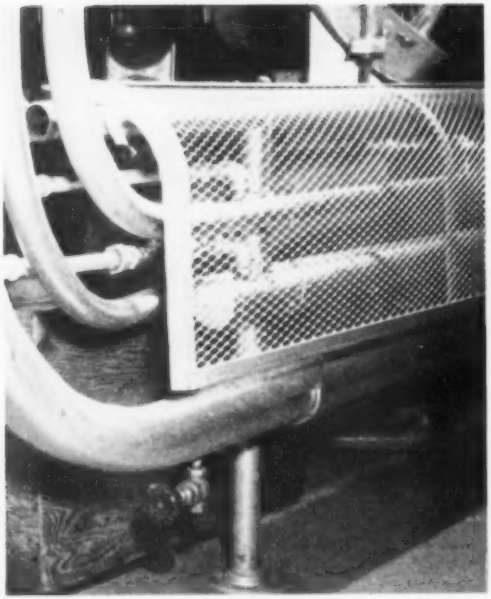
MAINTENANCE BEGINS on the drawing board. Good maintenance must be built into a plant, or its layout, or the equipment. The first cost may be high, but if it cuts the cost of maintenance it saves on expenses that may run for many years.

The backbone of planning good maintenance is to provide for every machine the ideal operating conditions specified by the manufacturers of that machine. Most of these specifications are presented later on in other sections. A typical one will bear repeating. It is that steam irons work best at 15 to 20 pounds steam pressure. How many drycleaners put reducing valves in their steam lines to give them that proper pressure?

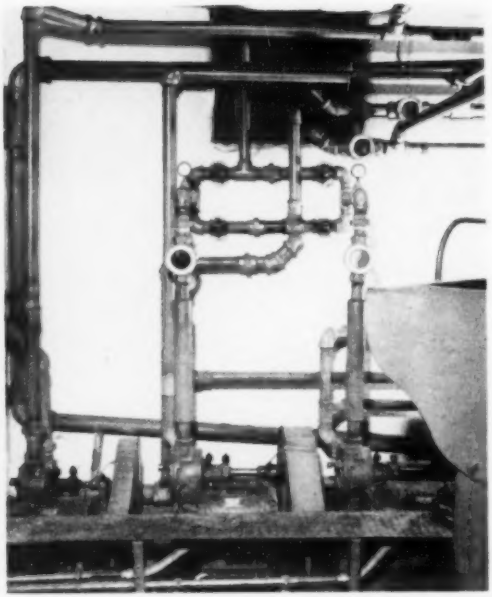
Before any equipment is set in place, even on a blueprint, the drycleaner should consider it in terms of maintenance and cleaning. Does he have to get behind it, under it, on top of it? Does he need room in front or behind for big tools, as when cleaning boiler tubes? Will he want tools overhead, such as a hoist for pulling screens out of a big filter? Can he get tubs under the cleanouts of filters and stills? Are the filters and stills nearest the back door, so that dirt won't be tracked across the cleaning-room floor? Can he get to the storage tanks for thorough cleaning?

Can he reach all traps without burning himself? Can he reach the control panel without reaching over the wetcleaning washer (honest, we've seen it)? Can he get at the ceiling fans? Are the plumbing valves easily accessible?

Sometimes it is almost impossible to set equipment where the back is easily reached for lubrication. Some cleaners have been successful in running tubing from the bearing to a nipple set in a "grease board" at the front of the machine. If *carefully* installed it works



GUARDS ARE EASILY REMOVED and replaced, protect employees from hot pipes . . . and vice versa. Guards would also protect insulation in exposed areas



PIPING ARRANGED so either pump can connect either washer to either filter. Filters and storage tanks are behind the wall. Note careful arrangement of guards

quite effectively, but tends to shake loose with vibration, and the gun has to apply considerable pressure to move all the grease in the tubing.

For every machine in the plant, *including* maintenance equipment like industrial vacuum cleaners or welding machines, there should be a **manual** of installation, operation and maintenance, including dismantling and reassembling. You should have this even if you depend on local machinists, electricians and pipefitters to do the work. It'll save them a lot of time figuring out the peculiarities of drycleaning equipment, at three or four dollars an hour.

Every machine in the plant should have a **record card** of its history. It should have an **inventory number**, so when Press No. 5 is referred to, everyone knows which press is meant. It should have an **inspection program**, in writing, and a **maintenance program**, in writing. Finally, every machine in the plant should have a supply of the more vital **spare parts.**

Equipment Layout Isn't All

Guard rails should surround equipment that is exposed to traffic in a way that is likely to damage it. Also, they serve to keep people away from places where they might get hurt, such as hot pipes, gears, etc. Fire doors, for instance, are sometimes protected by pipes filled with concrete and set in concrete a couple of inches from the door.

Include all safety equipment in your planning. If a sprinkler system is to be installed, where will the sprinkler heads be? Over your spotter's tumbler? Or a windwhip? How about the valve to the steam line in the cleaning room? Can you get to it without plunging through steam? Will the CO. or Foamite extinguishers be where you can reach them easily, yet not where they are likely to be knocked off the wall?

Don't plan to pile supplies or anything else up close to sprinkler heads. They might cut off enough ventilation to set the head off on a hot day under a hot roof.

Fit Ventilation Into Plan

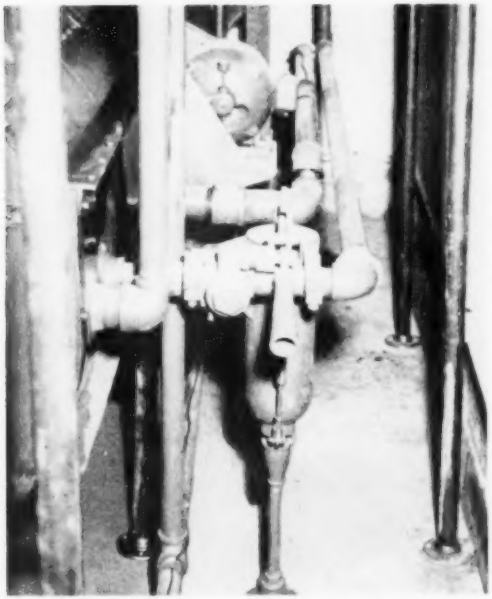
When placing equipment, consider drainage, ventilation, dead air pockets. Where possible place hot equipment at the opposite end of the plant from prevailing wind in hot climates, or on the windward side in cold climates.

The ventilating system should be planned in its entirety. Trying to cool off little pockets all around the plant with auxiliary fans increases the maintenance and housekeeping costs.

Make sure that one exhaust isn't picked up by another intake. In a well-known plant exhaust from the synthetic cleaning room was 20 feet above the ground but, because of the heaviness of the fumes, an intake on the floor below was drawing the fumes back into the plant.

Free flow of air from all intake and exhaust ducts, as well as unit heaters, must be unobstructed. The ducts must also be easily accessible for frequent cleaning. All duct work must have sliding or trap doors for

When moving equipment any distance in a plant, it is advisable to bolt skids to the base to hold it rigid and prevent excessive strain on any one part. Thus rollers can be placed under the skids and the machine shifted easily. It can also be moved over sills and low obstructions more easily.



ELBOW ROOM speeds cleaning, greasing and tightening. All equipment in the plant should be set far enough from the wall to permit free access to all fittings

cleaning out every bend, and at each spot where the duct narrows or widens.

Make Cleaning Easier

It may not be desirable to lay pipes in trenches under the floor because they collect dirt and moisture, require slippery steel covers, and are hard to work on. Overhead piping collects dust and lint, and is hard to reach when it leaks. Many engineers prefer overhead mains, piping down to machines with risers. It is also possible to run headers in the basement, coming through the floor where necessary.

Round corners in a room make them easier to sweep out, as does a rounded surface at the joining of wall and floor or wall and ceiling. Drains in all your concrete floors make it possible to hose them down.

Stairs and steps should always be wide enough to carry supplies up and down, and should have rounded corners against risers if possible.

No employee should have to face a bare window through which the light is appreciably stronger than it is in the room. The resulting eyestrain would guarantee fatigue by two o'clock every afternoon. If layout makes such a placement necessary, and the window ought to remain open, set up a narrow strip of screen close to the worker. Put it at eye level, wide enough to shield his whole working area, but don't bring it too low or the air will be cut off, too.

Protect With Paint

Painting dark patches around any spot that gets dirty from fingerprints will improve the general appearance of the plant. This includes doors, drawers, the wall by the drinking fountain. The alternative is to screw on enamel or glass plates, or else paint those spots every four months with hard enamel paint and scrub them daily.

Painting toilets yearly, and touching them up the sixth month thereafter, is a great deterrent to authorship. That first dirty verse or piece of artwork doesn't usually appear until the toilet walls get slightly dingy.

Pads should be placed at the telephones for the convenience of doodlers and for the protection of the walls and furniture. If doodling persists by a wall phone, paint a four-foot black or very dark colored circle around it.

Usually the overhead in a plant gets cleaned and painted so rarely because it is too difficult for a man to get up there. Provide a rod to hold on to wherever he has to clamber around. Even a small plant can use a tall stepladder. Nor does a plant have to be very large to make use of a portable, collapsible scaffolding. Once you have the equipment you are likely to make good use of it.

Plan not to leave a single rough, dust-catching surface in the whole plant. As in the Navy, "if you can't move it, paint it," or wax it, or seal it. Everything, including the cement and cinder-block walls, should either "brush easy or wipe easy."

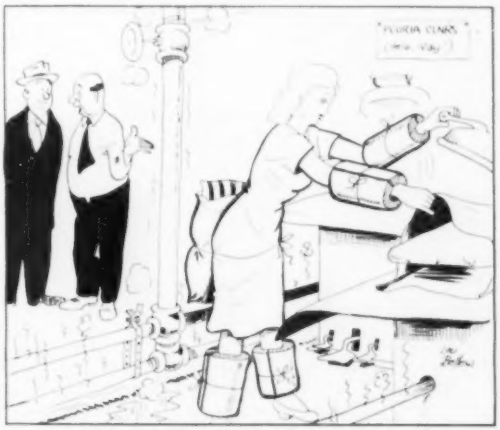
You have to keep after this paint, wax, seal program! Every time equipment is moved a few new pipes appear, or some boards, or a patch in the floor. If you don't paint these as part of the remodeling job, the plant quickly begins to look like patchwork. Housekeeping gets just that much more difficult.

A Place for Everything

Where can your whole force *sit* and eat? Not enough employees sit at their work to provide chairs all around. If you haven't room for a cafeteria or lunchroom, consider a table or shelf hinged to the wall. This can be dropped out of the way, and benches can be pushed up against it. Or a table and benches can be drawn up toward the ceiling.

Do you have space for empty bottles at the soft-drink machine and for trash cans where the employees eat lunch or change their clothes? Do you have locker space for employees, and for the old shoes that sit under the presses each night like weary toads under a mushroom, to be pushed around by the cleanup man? Speaking of trash cans, you should plan space for a wastebasket in all logical spots, including one for the customers in the store.

Provide storage space for your housekeeping equip-



"It's cheaper than covering the pipes."

When planning either repairs or changes, discuss them with the employees involved. They live closer to the equipment than you do, and are likely to have some very practical ideas about why equipment needs repairing or changing. It is possible they can suggest what to do to improve the operation of equipment.

ment and supplies: brooms, mops, wringer bucket, floor scrubber and waxer, industrial vacuum, brushes, cans of soap, wax, polish, rags, sandpaper, etc., etc. In with the supplies could go the paint cans and brushes used for touching up marred paint. This closet should not be near a petroleum-solvent drycleaning room. It also should be ventilated and well fireproofed.

Planning Repairs

Repair work has to be planned as carefully as the original layout of a plant. A written repair plan will make it go much more smoothly. Also less expensively, since you are generally dealing with expensive labor much of the time. Such a plan can be in three parts.

The "pre-shutdown" planning is writing down the details: who is to do the work; when it is to be done; how it will be done; estimated length of time it will take; what parts will be needed; what tools will be needed, including scaffolding and hoists; what preliminaries can be done, such as cleaning the machine or breaking through walls, floor or ceiling; protecting surrounding equipment with canvas or bags; providing ventilation or heat, etc.

Listing and obtaining parts include the little things as well as the important parts. We mean all the necessary nuts, bolts, cotter pins, seals, gaskets, springs, washers, packing, paint, grease, oil, etc.

Planning the job itself is the second stage, which includes: shutting off steam, air, electricity; clearing the area; bringing tools into position; having steam, air or electricity ready for testing; calling welders or other specialists ahead of time to advise when you'll be ready.

Finally "post-shutdown" planning includes clean-up, painting, insulation, adjustment, testing at ever longer intervals until the regular inspection and maintenance program becomes sufficient; disposal of old parts and refuse; retraining employees, if necessary.

There can never be an end to planning! # #

Who Does the Maintenance

A SPEAKER AT A CLINIC on maintenance problems said, "The average maintenance man is whisked off the street, equipped with a chew of tobacco, oil can, bowl of waste, and told to go to it."

There is an unfortunate tendency to think of a maintenance man as a kind of low-grade plumber, not skilled enough to work in a good machine shop. Actually, the true maintenance man is a highly skilled, ingenious and adaptable mechanic who can't stand the monotony of a machine shop and loves the variety of headaches arising in a drycleaning plant.

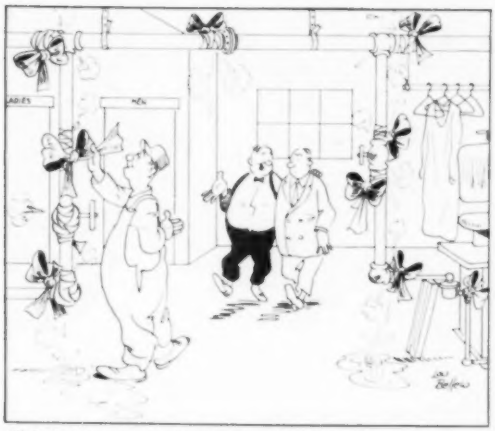
For the small plantowner, the likeliest place to find a good mechanic is among retired men who are restless and want part-time work. Such men, who might seem putterers, can get a surprising amount done because of their experience with short cuts and right methods. Another source is service veterans with similar experience in the services. It generally takes some patience to broaden their skills to all-around plant requirements, but such patience pays off in good mechanics.

Sometimes your skilled mechanic is something of an artist. When he's done a terrific job of setting up some equipment, he hates to see it torn apart and changed six months later. It is up to you, in such cases, to do a selling job on the advantage of changing his little masterpiece.

The maintenance man, if you have one in your plant, probably handles a lot of jobs that should be done by someone else. He is probably pumping a grease gun or painting a floor, when he ought to be cleaning and grinding valves. Actually, a high school boy can do many of the odd jobs usually foisted on a skilled and expensive mechanic. So one of management's problems is to apportion maintenance jobs according to the skill and pay justified by the job.

If the plantowner does this, he will find many jobs require workers at the same pay scale as his productive workers. Immediately this removes any mental objection to using productive workers for maintenance, when time or convenience permits (and the union's willing). This becomes the salvation of the small plantowner who finds skilled maintenance work reduced to an amount he can afford to farm out among local machinists, pipefitters, electricians and garages.

If the drycleaner doesn't have a skilled mechanic on his staff, that shouldn't stop him from bringing in spe-



"He's had so much practice he not only ties 'em with bows . . . he does it with one hand!"

cialists for preventive maintenance. The practice of not calling on outside help, except in emergencies, is foolhardy and expensive in the long run.

One important reason for getting a complete supply of maintenance manuals from manufacturers is to have them handy for specialists called in. You can cut short their time in your plant a great deal if they can trace wiring, for instance, on the diagram in the manual.

Maintenance by Productive Employees

Routine maintenance is best done by the operators of the machines, given the proper tools, supplies and *training*. They have an extra incentive for keeping machines in good condition—it improves their own productive performance. One plantowner does this with his piece-rate operators by paying them for an extra half hour per day, at whatever rate they earned during the week.

No special time is prescribed for maintenance, but his employees are expected to keep their machines and sections spotless and in the best possible condition, short of mechanical repairs and adjustments needing a skilled mechanic. If inspection shows neglect, the employees lose the maintenance bonus and the engineer does the work for a while. Since it represents a fair sum in a week, one withholding is usually enough.

If a noticeable leak, break or fault of any kind develops in equipment, that an operator should have seen and has failed to report, this plantowner takes him to task for not reporting it, withholds the maintenance bonus for a week.

This employee maintenance effectively curbs another cause of high repair costs—carelessness by machine operators. It gives them respect for their machines and accessories akin to that of old frontiersmen for their long rifles.

It penalizes carelessness on the part of supervisors for not having properly trained employees in the use and care of their equipment. And it spurs employees to call attention to needed adjustments and repairs at the earliest moment.

No inspection routine should by-pass complaints by employees that their machines aren't working properly. It is true that efficiency can drop so slowly the operator won't notice it. However, he or she is usually so accustomed to a steady gait as to be the first to note something wrong.

The actual complaint may not even be directed at the machine. Sometimes another employee is accused of not properly preparing the work. Or the worker gets edgy and short-tempered as he finds he can't hit his regular production. Or he decides maybe he doesn't feel so good, even if he came to work whistling that morning. When things don't "feel right" check the equipment first.

Just as productive workers are best for preventive maintenance, so supervisors in the productive departments should be held to account for the routine maintenance in their departments. The plantowner must do a careful job of selling the supervisors on maintaining production by keeping up equipment efficiency.

Overtime for maintenance should be necessary only on rare occasions such as rearranging groups of equipment. If the cleaner has capacity enough to handle his volume during the heavy spring months, he should be able to shut down single pieces of equipment during regular working days long enough to perform the necessary maintenance.

Safety Is a Factor

Maintenance, when applied to people, means safety regulations. The following apply in any plant, in any department, to all persons, at all times. **The one who violates these rules the most is usually the boss himself**—so he can't blame employees for the same violations. Like the New York cleaner who had to take a lighted cigar out of his mouth to bawl out employees for smoking in the cleaning room!

1. Don't fool around! Moving machinery and hot steam lines provide no place for horseplay. **Accidents aren't planned!**

2. Smoke where you are supposed to, and put out your stubs.

3. Take time to protect others as well as yourself. Put up strong scaffolds. Stretch canvas under you, if working overhead. Block under equipment that has been jacked up.

4. Stop machinery before making repairs—don't tinker with moving belts or chains.

5. After repairs, move machinery by hand to check for adjustment, or for materials left between two moving surfaces or gears.

6. Replace all guards securely before you leave the job—don't just hang them on for later attention. It might be too late!

7. Don't fool with electricity. Pull the switch and leave a red tag on it saying to leave it open. Don't use metal ladders or tools around live wires or switches. Ground portable electric tools. Don't clean "live" motors.

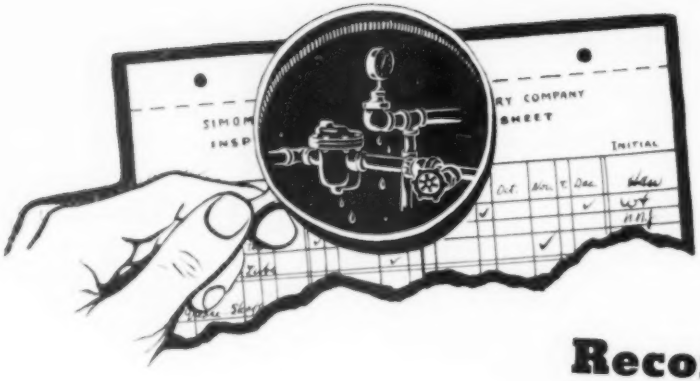
8. Close lines to steam equipment and drain them before working on them. Same applies to steam and air lines, or any pressure equipment.

9. Don't clean with gasoline. Use solvent and locate your fire extinguisher before you start. Check the air for fumes before welding or burning tanks or any solvent-bearing equipment.

10. Protect yourself—use goggles, heavy gloves, etc., when you are exposed to flying particles, hot materials, strong acids or alkalies.

11. Keep the job clean! Dispose of the rubbish as you go. More fires start in trash around a repair job, and more accidents occur under such circumstances, than at any other time, considering the relatively short time taken for such repairs.

12. Plan safety into your repair jobs from the very start. # #



Records and Inspections

Lube Schedule – Cleaning Machine

	Monthly	3 Months	6 Months	Yearly
Shaft Bearings front & rear		grease		
Shaft Seals front & rear	grease			
Danger Rods (2)	grease			
Fan Motor (2)			oil	
Shaker Motor (2)			oil	
Shaker Reducer				Flush & grease
Shaker Seal		grease		
Pump Motor (2)				grease
Pump				grease
Clutch			Flush & oil	
Washer gearhead				Flush & grease
Extractor Motor (2)				grease

LUBRICATION REQUIREMENTS for cleaning machine. Similar sheet is made for each piece of equipment and for each kind of service; i.e., lubrication, cleaning, tightening, wear inspection, etc. Information comes from manufacturers' instructions; may be modified by experience

Lube Schedule – Every Three Months – grease

	Jan. Apr. July Oct. 1 15	Feb. May Aug. Nov. 1 15	Mar. June Sept. Dec. 1 15
Cleaning Machine			
Shaft Bearings front & rear			✓
Shaker Seal			✓

QUARTERLY GREASING SCHEDULE may include parts of 20 machine schedules. In small plant, all quarterly maintenance work may be on one sheet. Two dates checked show effort to schedule greasing before and after heavy-volume weeks. Daily and weekly maintenance sheets can be posted in equipment locations. These longer-period records should be filed in "tickler" file according to next time needed. On proper date, sheet is pulled from file, handed to employee assigned to the work. Sheet of red paper goes into its place in file until it is returned. Schedule sheets mounted on cardboard, covered with glassine or cellophane will last long time—between schedule revisions, at least

ILLUSTRATIONS TELL THE STORY for this section. The paperwork involved in maintenance is most irritating to a drycleaner and his maintenance crew, but it does most to make the job easy. It guarantees nothing will be overlooked so long that serious damage is done. It assigns responsibility and eliminates much of the overtime.

Maintenance inspection tours should be made apart from any cleaning, oiling or servicing routine. Too many distractions are likely to develop, with tools to keep track of, garments on all sides, employees moving about. Such a tour should be made when the plant is closed on slow Fridays, in the evening or over a week end. It should be made with a complete checklist in hand, in the company of the man or men responsible for the maintenance.

There is one check to be made during the working day, however. Each employee must be asked how his equipment performs. If they seem satisfied, persist with specific questions about speed of drying, or physical effort involved, or any of the factors in the machinery's performance. Sometimes this uncovers little things that might otherwise go for a long time (even at the risk of stimulating the imagination of some workers).

Maintenance records can never be too complete. On the first tour around many little things are overlooked. These include matters like cleaning and oiling sewing machines, sharpening shears, checking first-aid cabinets, procuring germicides, etc. No recurring task is too small to list and to check on at the proper time.

It is advisable to keep separate record books on each truck. The extensive details of gas and oil consumption and of mileage at each servicing take considerable space. It seems to be the only way to get accurate performance records.

Acme Laundry and Cleaners in St. Louis has a blackboard in the boiler room. On the bottom of the board the engineer writes his preventive-maintenance assignments for the day, taken from the master schedules. If an emergency arises, the information is listed above and remains there until the job is cleared up. This helps establish priorities in the minds of both management and

MAINTENANCE AND REPAIR ORDER

Order No. .....

Department ..... Date .....

Machine ..... Serial No. .....

Description of Work Needed

.....

.....

.....

Requested by: ..... Approved by: .....

ENGINEER'S RECORD

Assigned to: ..... Date .....

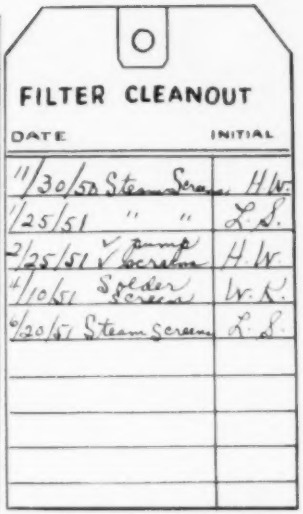
Completed satisfactorily ☐ Repaired temporarily ☐

New parts to be ordered ☐ Replacement suggested ☐

Date ordered .....

Approved by: .....
Department Head

MAINTENANCE AND REPAIR ORDER is worth while even in small plant, since it assures the necessary information is provided. Carbon copies in the tickler file remind management to follow through at proper intervals



IN SMALL PLANTS with no check sheets, employee initials 3-by-5-inch tag, attached to machine, on finishing job

the engineer, and shows where the engineer is likely to be working at any given time.

Parts When You Need Them

Replacement parts kept on hand should include all parts that are fragile or subject to rapid or unpredictable wear. This includes gauge glasses, latches, all types of valves, traps, couplings subjected to vibration, tubes or hoses subjected to flexing or vibration, belts, springs, special nuts, bolts and screws, signal lights or whistles, casters or wheels, bearings, pumps, small motors, etc.

Where a plant is large enough to have several pieces of equipment serving the same purpose, such as tumblers, washers, presses, etc., it is advisable to standardize on similar makes and models to reduce the number of kinds of spare parts.

Naturally, the smaller plant can hardly afford to keep its money and space tied up in a big supply of parts. It then becomes important for the little plant-owner to determine which items have a predictable life. By keeping to his planned maintenance and inspection schedule, he can spot when a machine part is beginning to show definite signs of wear, and order the replacement part *promptly at that time*. This should give him plenty of time to spare in case : (1) the manufacturer is slow in delivery, (2) the part gets lost in shipping, (3) it proves to be damaged on arrival, (4) it proves to be the wrong part.

In this connection, **no replacement part should ever be stored away on receipt before it has been checked to see if it is the right part and is in good working condition.** It may seem an obvious precaution that doesn't need comment here—but it is being overlooked every day!

If he inspects and orders carefully, the plantowner can then keep his inventory of spare parts down to those that are needed frequently, or that are fragile but essential.

If a cleaner works on such a limited inventory of parts, his annual "teardown" inspection becomes extremely important. In many instances it is only by at least partially tearing down his equipment that he can make sure all bearings are getting completely lubricated. Then he can determine how long it will be before he will need replacement parts.

Keeping careful production records not only tells you how your productive employees are functioning but how your equipment is performing. Therefore, it should be possible to break down your cleaning room records to show what each machine produces in a day or week. Thus you catch signs of trouble immediately when a washer or tumbler produces one or two loads less on busy days than it normally does.

Spare parts should be "flagged" with a red (or yellow, etc.) tag on which is listed all pertinent information concerning that part. When that part is installed in a machine, the tag is removed and sent to the office. This is a notice that another part should be ordered at once. When the order has been filled the red tag is fastened to the new part.

If many identical parts are kept on hand, such as

"Your priority number is 10! If you want that busted steam iron fixed, get back in line!"

bolts, gaskets or gauge glasses, some of them should be tied in a small bag or envelope. The tag is attached to this. The loose parts are used first, and the tag is turned into the office when the bag or envelope is opened.

When ordering the spare parts for any machine, all the following information possible should be shown on the order: the name, size and serial number of the machine involved; the name, serial number (if any) stamped on the part; drawing number (if any) shown on the manufacturer's drawing or specifications, and how many of *each* part wanted in the order.

Most equipment has serial numbers stamped somewhere on it or on a plate attached to it, or else the literature tells the exact model number. This number should be filed as a permanent record. When ordering parts, you should mention the machine's serial number even though the company has made the same model for a long time. Some slight changes in design may have been made, including redesigning of parts. In such cases the serial number tells the manufacturer the age of your machine.

There are so many kinds of cover cloth and padding of varying degrees of usefulness that it is difficult to set up a hard and fast schedule for replacing them. As a result, many cleaners are doing so only when they can't be used any longer at all. Thus a lot of badly finished work goes out.

Actually, the plant manager must set a time each week to check every machine in the finishing department for the condition of its "clothing." This includes padding, flannel, cover cloth, springs and wires for presses, as well as the hand grids and their springs. It includes the bags for the garment steamers and sleevers, puff-iron covers and finishing pads. Other accessories would be sleeve formers, trouser clamps for stretching, shoulder pads, pedal covers, rubber mats, etc.

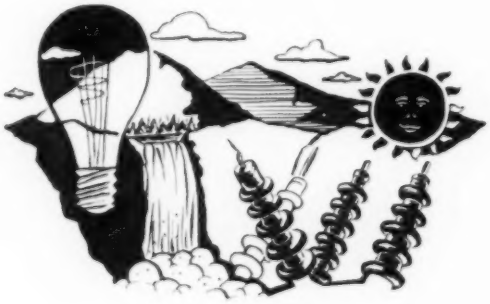
There are a thousand such little things in the plant that should be listed. Listing is the only way you'll remember to look for trouble before it finds you, and to be sure to have replacements when you need them. That's one way of having an order ready for the jobber salesman when he walks in the door. It'll save your time and his.

Cleaning plants are like old attics. Junk collects in every odd corner where it is out of the way enough not to get kicked around. A drycleaner can take a leaf from the Navy and hold a "locker inspection" every three or four months. This means inspecting not only lockers, but drawers, shelves, closets, bins, cupboards and just plain corners.

Pull all the stuff out, and go over it with the employee in charge of that department. Don't insist on junking everything he thinks he needs, but keep reviewing every item each time. It has a salutary effect in weeding out plenty of useless and sometimes dangerous junk. Also, it turns up stuff that has been mislaid because of more pressing matters. If the locker inspections come at unannounced intervals, they help curb theft.

The important thing about inspections is that they be made regularly, conscientiously and purposefully! ≠ ≠

Power, Heat, Light and Water



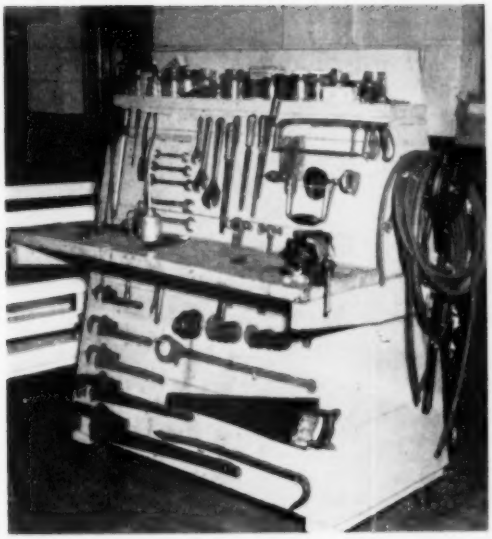
IF THE PUDDLE under a steam or water leak were made of gold or silver you'd rush down to the bank to deposit it to your account. But because it's just a little water, costing a few cents, you decide to fix the leak "when you have time" and turn back to getting the work out. Actually, the cost to you of a leak isn't in pennies, but in dollars.

A leak is a constant, relentless thing! Steam in a press only costs you when you use the press. Steam from a leak costs you every minute the boiler has a pound of pressure on the gauge. Also, a leak is always getting bigger, until the pressure behind it has made a hole so big there is comparatively little resistance to the pressure.

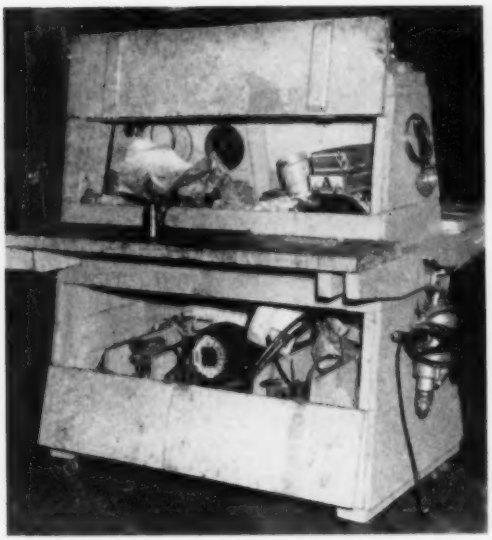
The table on page 51 gives the approximate cost to you of *one* leak measuring one-eighth inch in diameter in either a steam, a water or an air line. An eighth of an inch is the size of the lead in a soft pencil. A hole one-sixteenth inch in diameter (size of an Eversharp lead) will cost 60 percent of the expense of an eighth-inch leak. A pinhole (one-thirty-second inch) will cost 35 percent of the eighth-inch leak. These figures are approximate, but close enough to give you an excellent idea of where your money goes.

Those figures are total costs. They include not only the cost of fuel, but also depreciation on equipment providing the steam, air or water. Added in too are overhead and labor directly connected with providing these utilities.

A hole one-eighth inch in diameter sounds big. Any fool, you might think, would be quick to fix such a hole. But in real life leaks don't appear as round holes. Actually they may be paper thin and an inch long. Yet the area of the leak equals that of a round hole one-eighth or one-quarter inch in diameter.



PORTABLE TOOLROOM devised at Lane's Laundry, Greensboro, North Carolina. Note the "shadows" painted to show where tools are missing. These should all be covered before moving to next job



OPEN DOORS at back reveal storage for bulky tools and supplies. Tapered shape permits two solid work shelves, centered above casters so pounding won't tip outfit over

Loss from 1/8" Leaks of Any Kind (Each Leak)

STEAM

Oil per Gal.	Coal per Ton	Annual Loss
if $.05	if $10	will be $ 820
.07	14	983
.10	20	1228

WATER

Cost per 1000 Gal.	Cost per 1000 Cu. Feet	Annual Loss
if $.10	if $ .75	will be $162
.20	1.50	325
.30	2.25	488

COMPRESSED AIR

Cost per Kwh.	Annual Loss
if $.02	will be $162
.04	325
.06	488

Steam leak losses occur at fittings where the threads have rusted out, where sand holes in castings open up, at pipe cracks, *through leaky traps or valves*, and from long-used equipment that has developed leaks through age and long wear. You can figure what a steam leak may be costing *you* from the table below for a boiler running at 80 pounds pressure for a 40-hour week.

STEAM WASTED PER MONTH

Size of Hole	Lbs. Steam
1/32"	3,060
1/16"	11,880
1/8"	47,250

If steam is costing you a dollar a thousand pounds, you can waste enough in one month in a leaky valve to pay for grinding and reseating it, *if it gets no worse in that time*. One dozen small steam leaks in a drycleaning plant can easily reduce its boiler capacity by one boiler horsepower.

Dripping fittings, faucets, pinhole leaks, valves, running toilets, hour after hour build up water losses. A drinking fountain, running all day to give cool water because the cooling part is out of order, wastes a substantial amount of water in a day. Please notice that the following table is in gallons *per minute*.

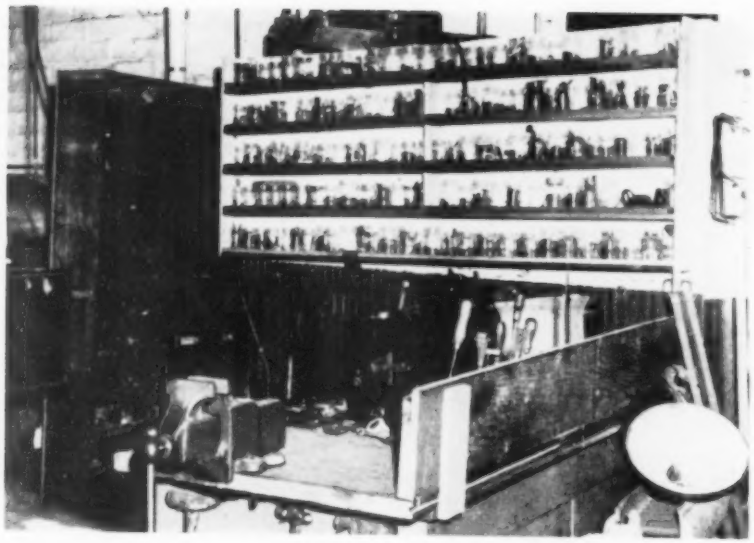
WATER WASTED PER MINUTE

Size of Leak or Open Pipe	Loss in Gallons per Minute 20# pressure	50# pressure
1/32"	5	7
1/16"	6½	10
1/8"	9	14
1/4"	14	22
1"	150	240

Air, you say, doesn't cost much, because the city can't charge you for *that*. But it still costs you kilowatt hours to run the compressor, plus depreciation on the

AIR WASTED PER MINUTE

Size of Leak	Cu. Feet Air per minute	Compressor Efficiency with— 100 cfm capacity	200 cfm capacity
1/64"	2.5	97.5%	98.7%
1/32"	4	96	98
1/16"	7.5	92.5	96.3
1/8"	21.5	78.5	89.3
1/4"	86	14	57



COMPACT "SHOP" is in middle of production floor, easily accessible to work, at Lungstras Cleaners in Kirkwood, Missouri. Saves many steps compared to usual workroom "out back"

machine, plus maintenance, plus overhead, etc. Air may cost you the least, but it also leaks the easiest. The seepage of air around *one* loose air gun connection wastes more than a one-thirty-second-inch hole, which is *four cubic feet per minute*.

The table (page 51) is based on operation at 80 pounds pressure. It isn't hard to sneer at a leak that loses only two and a half cubic feet of air per minute. Eight such leaks could reduce a small compressor to little more than three-quarters of its effectiveness. A dozen or fifteen tiny leaks could put air-operated equipment out of business until some repairs were made.

Can't Afford To Insulate!

There is one other type of leak that requires positive action rather than just "preventive maintenance." That's loss of heat through radiation from pipes and heat using equipment. The table following this suggests why your coal bill is so high. Naturally, the story would be the same for oil, gas or sawdust burning plants.

Tons of Coal Wasted Per Year by Radiation

20 feet, two-inch pipe	1
33 feet, one-inch pipe	1
Open-end tumbler, 36" x 30"	3
Mushroom press	½
Utility press	¾
Legger or coat press	1
Drapery press	2
Small still	1
Drying cabinet	1

This heat loss is based on a boiler running at 80 pounds pressure for a 44-hour week, 52 weeks in the year. If you keep the boiler at 10 pounds pressure nights and Sundays, the loss through radiation would be at least one-half greater. There are other factors, of course. The heat that this radiation provides in winter time is offset by the mechanical ventilation required in the summer months. Moreover, in the winter this heat isn't distributed to the best advantage.

Once applied, insulation must be maintained just like any piece of equipment. Properly applied, it is quite sturdy, but if permitted to go without a little maintenance it can deteriorate badly in spots. Most damage occurs to insulation when equipment is being repaired. Replacement or restoration of the insulation should automatically be part of the repair job.

Insulation needs to be checked for loosening in the presence of excessive vibration. After stopping the vibration, reapply the insulation. Tighten the tie wires and bands, replacing any that are corroded.

Pipes, Valves and Traps

Heavy piping strains unions! Hangers should be close to all connections so the sag of a pipe won't pry on them. Hangers should be close enough to each other so there will be no sag in the pipe. They should be tapped lightly with a hammer or thumped with the hand at least once a month to see if they are holding their share of the load.

Pipes that are supposed to be pitched for proper drainage should be checked with straightedge and level at least four times a year. Make sure they haven't pulled a hanger loose and developed a sag that doesn't drain. If your steam pipes are "thumping" in the morning that could well be the cause. The fresh steam scoops up the undrained condensate and socks it against each joint it passes.

Drycleaners making their own installations persist in using pipe that is too small. No pipe should be of smaller diameter than the fitting it connects to on a machine, unless the manufacturer gives instructions to the contrary. Also, adding equipment to a steam line without increasing the diameter of the header reduces the efficiency of all the equipment. While a half-inch line feeds two presses, for instance, it takes a three-quarter-inch header to feed three or four presses. The other sizes are below:

Pipe Size	No. Presses	Pipe Size	No. Presses
½"	2	1¼"	10
¾"	4	1½"	14
1"	6	2"	25

Too often a valve that seems worn out only needs regrinding, which is simple and inexpensive for the cleaner to do. Regrind valves at the first sign of seepage through them. The time involved not only cuts steam loss but maintains equipment efficiency at a much higher level.

A few valves are discarded before they need to be. After reseating stationary type valve seats it may be necessary to file a little off the end of the valve disc screw. This matches the amount ground off the seat and keeps the screw from holding the valve slightly open.

If you have "gate" valves in the steam lines and they wear too fast, that is because you are using them too much. Where steam is turned on and off frequently, you should have globe valves. They won't chatter when partly opened like the gate valves do, either.

When putting in a new valve, make sure all connections are clean, then put the pipe dope on the male threads only. This helps keep foreign substance out of the pipes that might hold a valve open.

Incidentally, it is unwise to make a practice of leaving steam lines open at night. As pipes cool, air rushes into them. Some of this air goes back into the boiler via the return line. It adds enough carbon dioxide to the steam to acidify the whole system and increase the corrosion rate seriously.

Trapping each piece of equipment separately saves a lot of headaches. One balky trap can foul up only one piece of equipment. Only one machine will be out of service while its trap is being repaired. With separate traps the activity of any one machine won't affect the rest, so each machine can work at its highest efficiency at all times. The alternative to individual trapping for a drycleaner is to use the "trapless" system developed a few years ago which works quite effectively with several pieces of equipment when they all require the same steam pressure.

Rough and ready test to see if a trap is working is to drop some water on it. If it just bubbles away, you've got trouble. If the water vanishes with a pfft, the trap's okay. Or you can set a screwdriver against the top of the trap and place your ear against the screwdriver handle. You should be able to hear the trap emptying each time with a click.

It is a good idea to have a union and a globe valve ahead of each steam trap, and a check valve behind it. If a trap gets fouled up the return line won't back up on it because of the check valve. Moreover, with the globe valve and union the trap can be changed for another in a few minutes without taking apart half the piping. Then the machine can be back in operation while you take the ailing trap apart.

Every man we consulted on maintenance said, "Tell them to put in reducing valves for low-pressure equipment!" Most plants have at least one piece operating at higher steam pressure than it is supposed to. Some plants run at 100 pounds pressure when none of the equipment requires over 80. Some run their plants at 80 pounds pressure, including a synthetic unit or tumbler requiring 100 pounds, and wonder why drying and distillation take longer than they should.

Find from the equipment manuals the required pressure for each machine. Set the boiler pressure at the highest level required. Then install reducing valves where needed to feed the lower pressure machines what they require. They will all work much better!

Dirt and scale play the most havoc with traps. If this is a problem, a lot of it can be eliminated by "dirt pockets" in the lines just ahead of the traps. These are tees in the line from which are suspended nipples capped at the bottom. The condensate drifting through the pipe drops much of its solid matter in these dirt pockets. The latter can be cleaned out once a month, or whenever necessary.

Boiler Care

There was an excellent article on maintenance of boilers starting Page 46 in the July 1951 issue of NATIONAL CLEANER & DYER. Rather than take the space to repeat the details again so soon, we refer the reader to that article. However, one or two points should be stressed further.

Drycleaners are frequently urged to test their safety valves and blow the boiler down daily, and to replace the fusible plug twice a year. This is for the cleaner's own protection. He should vary from that routine under one condition only. The condition is that he have the boiler checked regularly by a heating engineer, and that he have the water tested and submit the report to the boiler manufacturer for recommendations as to what compounds to use in treating the water.

Impurities in the water differ from town to town, season to season and almost day to day depending on the rainfall. Some impurities are soluble, some precipitate as sludge, and some form a hard-to-remove scale. It takes a tailor-made compound in many instances to keep a boiler from fouling up.

No piece of equipment protests more violently over poor maintenance and poor housekeeping than a boiler. The manufacturer's manual is usually detailed and should be followed to the letter. Give a boiler too much attention rather than too little. Keep it clean, lubricated, in repair. Test controls regularly.

The fact that there are few boiler explosions and fires these days is a credit to the boiler makers and boiler control makers. Ninety percent of the drycleaners treat their boilers like a jeep!

Illumination

Good light in a drycleaning plant: increases production; improves quality; reduces go-backs and speeds inspection; builds employee morale, and reduces accidents. However, one false belief about what good light is should be corrected.

It isn't the brightness of a light that counts so much as the amount of contrast. If you remember the difficulty your eyes have adjusting to the light in a building after coming in from bright sunlight, and vice versa, you will understand the principle.

How often does a drycleaner carefully arrange whole banks of fluorescent lights mixed with spotlights for his inspectors, only to have the girls complain of terrific headaches or fatigue before the afternoon is half over. It is the contrasts that are killing them, shifting their eyes from the bright foreground to the dark background, or even focusing on one and seeing the other vaguely behind.

Inspectors and markers must have good light, it is true. But the remainder of the plant ought to be up to at least 70 percent of the same illumination level. If the lighting is the same throughout the plant you will avoid those go-backs where nobody but the inspector can see a spot, because she has different lighting.

Good over-all lighting is suggested to be 50 candlepower. There are a lot of factors that pull the lighting level lower than that, even though it was set up for 50 candlepowder to start with. These factors are: (1) aging;

(2) low voltage which dims fluorescent lights more than incandescents for the same voltage drop; (3) inefficient luminaires or globes and reflectors; (4) dark or absorbent room surfaces (including fabrics); (5) dirt and dust; (6) outages, which are bulbs burnt out but not yet replaced.

The table on light loss gives an idea how much total illumination can be affected by each of these factors. If the extremes in each case were taken it would seem to add up to more than 100 percent. However, each factor affects the others. For instance, if illumination were reduced by 30 percent because of old fluorescent tubes, then dirt could dim the *remaining* light by 30 percent, making a total loss of 51 percent rather than 60 percent.

Maximum Light Loss in Percentages Due to Various Factors

Aging—Incandescent	20%
Fluorescent	30
Mercury Vapor	23
Low Voltage—poor wiring, overloading	20
Luminaire—bad design, broken	35
Poor reflection—paint reflects less each year by	5
Dirt and dust	30
Outages (how blind can you get?)	12

It is cheaper and better to replace lamps *before* they go out, by replacing them in groups all at once. Once you find the average life of tubes or bulbs in your plant, start replacing a whole row of them at one time. At the same time wash all the lamps and luminaires in the place. Three months later, replace another row of tubes, and again wash the whole set of lights. If you mend and paint the damaged luminaires at the same time, you'll find that the labor saved in doing the job all at once is more than the little extra life that some of the tubes had.

A tip on damaged luminaires is to have a couple of extras. Replace the damaged ones with the extras. Then you can mend the cripples at your leisure.

It is a mistake to go around switching off lights during a "break" at lunch time, or during the short interval before the janitor cleans up around the place. Warming up a dark bulb ages it a lot more than burning for an hour.

It is customary to have red signal lights on some equipment such as electric irons that warn you the current is on. A similar light at the main switchboard will serve as a double check, just in case one of the lights has burned out. If it still burns when all other warning lights appear to be out, there's a dead light in the plant somewhere, with the juice still on.

A new development in industrial wiring, called the "trolley duct," is going to make layout simpler. Conductors run the length of a finishing room and equipment can be plugged to it anywhere by a special connection. No need to install new wallplugs whenever you move equipment.

Motors Are Muscles

Among the things you should know about your motors is the temperature at which they ought to run. Unless the manufacturer's manual says otherwise, no motor should get so hot you can't put your hand on it. Best running temperature is 70 to 75 degrees F. In no case is your hand a fair judge, however. You should always check with a thermometer.

Overheating is almost invariably the major symptom of motor trouble followed by vibration and noise. The cause can be bad alignment, worn parts, loose connections, too little or *too much* lubrication, or just plain dirt. The trouble can also be excessive voltage or too much load for the capacity of the motor (including badly adjusted brakes on some equipment).

Motor bearings should turn freely and shouldn't have noticeable up and down play. If the bearings are even slightly worn they ought to be replaced before the armature and field of the motor are harmed.

Dirt and dust can do more damage to an electric motor than to any piece of equipment in the cleaning plant. It coats the coils and makes them overheat. It grits in the bearings, fouls the connections, smudges the brushes. Making sure the switch is off, the electric motors should be air blown or vacuumed daily. They should be cleaned and adjusted twice to four times a year, depending on how hard they are used (see manufacturer's manual).

The controls should be kept clean. Contact fingers and push-button contacts or points can be sandpapered or dressed with a very fine file to keep them smooth. Brushes ought to make firm contact with the commutator of a motor, yet should move freely in the brush holders.

If the electric motors didn't have lubrication instructions attached, write for them. Sometimes they were on a tag attached to the motor, which you threw away with the rest of the labels. If the equipment manufacturer can't give you specific lube instructions for the motors, write to the makers of the motors themselves (see manufacturers' listing section of this issue for the addresses of many of the electric motor firms).

Use of oil instead of the grease prescribed for many electric motors can cause a serious burnout. Too much grease can attack the insulation of the motor and break it down.

Never use service wires to any machine smaller than the wires furnished with the machine. The greater the distance between the switchboard and the equipment, the larger the wire required, in order to avoid any more voltage drop than necessary. All wiring should be run in conduit.

For extractors, the service wire should be large enough to carry two and a half times the ampere rating stamped on the nameplate of the extractor. This will carry the momentary overload of starting the extractor, if the proper voltage, also stamped on the nameplate, is used. Otherwise both the motor and the service wire will overheat. # #

"We get 99 percent possups!"

Building Needs Maintenance, Too

LEVEL, RIGID AND SOLID! That's the way a dry-cleaning plant ought to be. No matter how cleverly the manufacturers make a machine that works efficiently under all kinds of fantastic conditions, the machine will work better and last much, much longer if it is level, rigid and solid.

Bearings are made to support weight evenly over their whole surface when a machine is level. Having the machine on a slope changes the stress on the bearings. It gives them a thrust at a different angle and wears on their sides or flanges.

Rigidity is important because the more play there is in equipment, the more leaks will be developed. A "loose-jointed" machine not only wears on the bearings but around every bolt and latch. A machine base should be set square and even on the floor, especially after all its nuts, bolts and screws have been tightened. Frequently new equipment, improperly installed, will have a corner or even two corners off the floor. After it has been used a while, and its joints loosen up, it sags to fit the floor like an old hat on a squarehead. From then on the machine stops rockin' and just shimmies.

Being solid is the basis of rigidity. We watched a washer once that was set good and square to the floor; only the floor rose a couple of inches each time she reversed. It's asking too much of a motor to move the cylinder, the shell, *and* the floor!

Machinery just has to have a solid foundation. Each time part of a machine moves, it pushes, leans, pries, rolls or jerks on some other part. If the other part gives instead of holding steady, it's like reaching for that extra stair tread—an awful shock to find it isn't there!

So, floors should be level, rigid and solid. The time to make them that way is *before* you put equipment on to them!

Heavy equipment should go on concrete that was laid on firm, well-settled ground. The concrete should be at least slightly reinforced. Then if the concrete cracks, the separate slabs won't be so likely to take different levels. If this seems an unnecessary precaution, remember floors don't always crack the first day a load is set on them. It can be months before trouble starts, as the whole building settles. An old building with new tenants is likely to settle almost as much as a new building, since the loads and stresses are usually different.

But the real trouble is with equipment set on wood floors. People don't seem to realize that leaky steam and water lines are often caused by springy floors. What can you expect if your utility press is midway between floor beams with long-span floor joists, and the wool presser is bouncing that head down twelve to the minute? If you were trying to break a pipe joint deliberately you'd do just what the presser is doing—wiggle it back and forth as hard and fast as possible.

Before placing a press you should test the levelness of a floor with a straightedge. Preferably the straightedge should be long enough to span the floor beams. It must be at least 10 feet long. If the floor isn't level because of poor underpinning, it should be shored up before the equipment is hooked up. This would be if the floor sags below the straightedge more than a quarter inch when the press is put in place.

One of the best means of shoring is the long-shanked screw jacks that can be locked in position. A broad, strong headpiece and footing have to be provided for each shore. Otherwise the cleaner will get an idea of the jarring his wood floor takes, by seeing cracks appear in the concrete under his shoring. The support given at the top of a shore means that an equal amount of strain is delivered at the bottom.

However, if the floor has settled solidly, and doesn't respond to shoring, the cleaner must resign himself to a very careful job of shimming and leveling of his equipment.

Therefore, among the many things that determine your location for equipment should be placing it where the floor is most level and solid. In a frame building, this could be along the walls or down the middle of a room above a center floor beam.

A great many maintenance problems arise because some equipment is in makeshift or temporary positions. The drycleaner never planned for expansion in his original layout. Tanks get concreted over, or are set in the middle of the available space, so they have to be moved to make room for another tank. Presses tie into a steam line too small to carry the load. Pipes are hung with baling wire. Extra tumblers use one stack meant for a single tumbler.

Every makeshift installation creates vibration, or overloads a pump, or cuts the steam supply, or increases the problem of lint control, or adds to the problem of maintenance in *some* way.

Some piece of machinery is moved once every three months in the average plant. A level should be standard equipment. Manufacturers usually tell where to check their machines for levelness. If not, hold the level even with the lower edge of the machine base. If the machine stands on legs, set the level on a straightedge lined up with the bottoms of the legs, first lengthwise and then front-to-back.

When shims or wedges are used to build up a corner or end, the entire base should be supported. If the

base is continuous, the shim should be also. If it is a question of supporting a leg, the entire bottom of the leg should be held solidly.

Checking the floor with a level before placing the equipment is not sufficient. Even a concrete floor may settle under the weight of a heavy washer or a boiler. All equipment ought to be checked for levelness, at least once a year. This is not only to ensure efficient operation, but to find any signs of settling or warping in the building itself.

Walls and Roof

Maintenance of buildings calls for a variety of work. It is best considered by parts. Outside walls should be inspected for cracks and openings around the windows, and for disintegration of mortar joints. Cement mortar can be used for pointing open joints, and possibly a mastic calking compound will work around the windows.

Outside painting of steel work, wood, sheet metal, steel sash, etc., is usually required every two or three years. At least twice a year, cracked window panes should be replaced, defective putty replaced, and the necessary touch-up painting done.

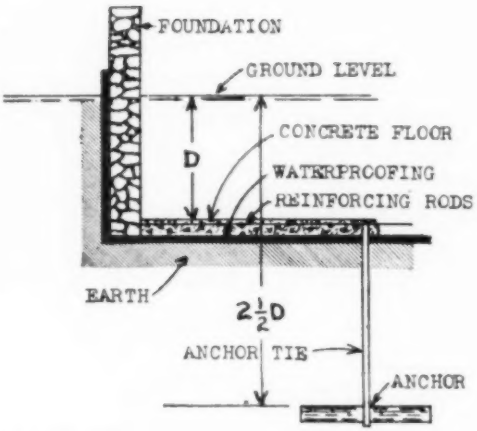
A roof manufacturer is best qualified to repair the usual tar-and-gravel or the built-up roof, since he made the felts and possesses a thorough knowledge of roofs. He also has the equipment. If the roof is protected by a surety bond, the roofer responsible should in all cases be called.

Summer heat, winter frost, storm damage, vibration, atmospheric gas or moisture may cause leaks, flashing may deteriorate, joints of gutters open up. The roof drainage system requires protection against clogging with debris. Screens, grating and traps need monthly cleanings. Special inspections ought to be made after severe storms. Every plant should have access to the roof by stair or ladder to make these regular inspections.

Foundations and footings need to be checked for settling and for water seepage. The condition and safety of the building above is dependent upon them. If and as the foundation does settle, provision should be taken to keep the sills of the building level. Square and level sills and beams are the basis for level, solid floors.

Floors are of many kinds, each calling for different care. Concrete floors are repaired by patching, wood floors by replacement, and mastic floors by filling cracks, or applying heat to close the cracks. **The greatest mistake in repairing floors is doing too little.** Invariably the material around the damage in the floor has been weakened. It is important to replace the *weakened* as well as the *damaged* material. Prevention of accidents and speeding traffic in the plant depends on not letting floors get rough and broken.

"The boss is installing another press."



A SOLUTION for water in basement, if cellar floor persists in cracking

Cleaners who find their basements spoiled as storage spaces because of dampness, might try the following: Frequently leaks in the basement can't be blamed on poor waterproofing. If the water table (level of water in the ground) is several feet higher than the basement floor, there is a surprisingly strong pressure under the basement floor that bows it up enough to make cracks as the building settles.

Illustrated here is an "anchor" that will keep the floor from bowing, even with minimum thickness of concrete. It is part of the method of "floating" heavy buildings on marshy land. The biggest drawback is having to go below floor level two and a half times the depth of your basement to set a firm anchor.

Notice that the basement floor must be reinforced and the anchor tie must be attached to the reinforcing rods. The reinforcing rods should be near the top of the concrete floor, because the anchor tie or ties will be pulling down to keep the floor from bowing upward.

Incidentally, such a tie rod will make an excellent "ground" for your static discharge lines from washers, extractors and tumblers.

Dirt at the Back Door

Many of the smaller plants load and unload route trucks at the back door. This is also where the trash is usually stored, including sometimes either ashes or sludge, or both. Sometimes the area is unpaved, thereby providing its own dust. It's possible more dirt enters the back door on shoes and boots, or in breezy gusts, than comes in on the soiled garments.

Space should be provided for *covered* trash cans. They should be where they can't be jarred or crushed by either the cleaner's trucks or by the solvent and supply company trucks. Then they should be inspected once a week to make sure that they are tight and intact. If the plant burns its own trash, the incinerator should be enclosed with fine mesh wire, set at sufficient height to avoid spoiling the wire by heat. This, too, should be inspected weekly.

If the dust is uncontrollable, the plant should have

Use an old push broom to paint wire fences. Fasten a bar lengthwise of the wide shallow pan that holds the paint. Wipe the excess paint off on the bar. Sweep the fencing in long light strokes. Paint it on both sides. If necessary, place canvas on the ground to catch the splatter, which won't be as great as you'd expect.

a sort of air lock from the loading dock to the drivers' racks. This would be a double set of doors, one of which is generally closed while the other is open. The best arrangement, of course, is a garage with outer doors that are closed during loading. But it's easier to pave!

Paint!

Paint is the best means a drycleaner has for reducing the *appearance* of confusion in his plant. The outstanding instance of *this* use for paint is at Marvel Cleaners in Coral Gables, Florida. The production area is painted in five different shades, starting with the darkest on the floor and grading off to the lightest on the ceiling.

At no point is there any sense of contrast. The floor, baseboards and bottoms of equipment are all a medium (battleship) gray. The ceiling and piping near the ceiling are an off-white. Everything in between is painted according to its height from the floor. Four feet from the floor a medium green becomes lighter. Equipment, posts, risers and piping do the same. At the 10-foot level everything changes to a still lighter shade of green, so light that it doesn't contrast with the off-white ceiling.

This is a small plant thickly packed with equipment. Yet, because of the way it is painted, the production area has a deceptive air of spaciousness. In a warm climate the psychological advantage of this is very helpful!

Grading colors like this is quite important in reducing eyestrain. **There should be no sharp contrasts in terms of darkness and light.** There shouldn't be any shiny or bright surfaces, particularly where either daylight or artificial light can bounce back into the workers' eyes. All that a worker sees—the working area, the machine, the floor, the walls—should reflect nearly the same amount of light.

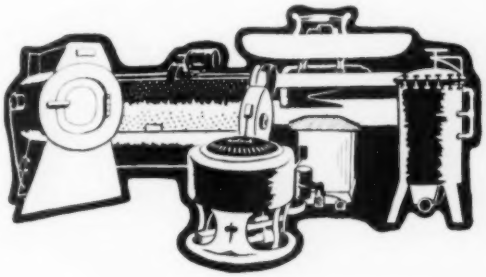
This does not mean you can't use contrasting *colors*, i.e., red with green! As long as the colors are of the same relative brightness and reflecting power they won't strain the eyes.

In fact, color contrasts can be used for functional purposes. Red is most commonly used functionally to mark firefighting equipment. Green shows safety appliances, such as first aid equipment, as well as areas to be kept clear, as around fire doors.

Yellow, or frequently yellow and black stripes, mark obstacles to avoid striking against, such as ceilings in stairways, or low slickrail brackets. Blue is on electrical equipment, control panels and motors, to warn you, for instance, not to use water around them. Orange means "pay attention, be alert!" It is used on the inside of control panels and panel doors to show when the doors are open, or on guard rails, or at blind corners where accidents might occur.

There is much more to the subject of paint and color in an industrial plant than we can discuss here. It is well covered in a booklet put out by E. I. du Pont de Nemours & Co. A copy is available to any plantowner who will write that company a request on his business letterhead. # #

Efficient Production Equipment



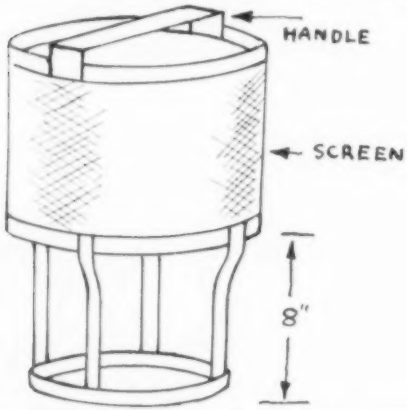
WE OFTEN WONDER if some drycleaners change their brand of soap so often just to get some allied tradesman to help them clean out their cleaning system—washers, tanks, filters, extractor, catch tanks, solvent pumps, lint and moisture traps, piping, and whatever else might be fouled up in the drycleaning cycle.

Certainly, the extent to which this operation is neglected in the cleaning rooms of the country is revealed by the fact that a soap salesman generally feels it necessary to purge a drycleaning system before trying to install *his* product. Because it is such a messy job it is probably more neglected than any other phase of drycleaning room maintenance. Likewise, neglect of regular thorough cleanings probably causes more grief in drycleaning plants than any other single factor.

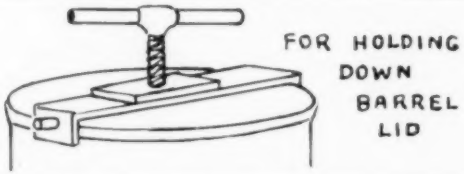
A drycleaning plant should clean out its solvent system thoroughly at least twice a year, preferably just before spring and fall volumes build up. For this reason we put it at the head of the list of things to be done in the way of maintenance on productive equipment.

Cleaning the washer is best done at the end of the week so that it can dry over the week end. If it has a wood cylinder it should be run in solvent for a few minutes before starting the wash. This saturates and protects the wood staves from the action of the caustic during the cleaning.

Drain the solvent and fill the washer one-third full of water at 120 degrees F. For every 25 gallons of water add one to three pounds of trisodium phosphate, an equal amount of wetcleaning soap, and about a quart



CONSTRUCTION OF MUCK BASKET shown in photos on opposite page



HOW BARREL-TOP CLAMP is constructed (compare photograph)

of paint remover. Close the door and permit the fumes to soak loose the scum on the ends of the shell and above the water line. Turn the cylinder over occasionally, if it is wood, so that none of it stays too long in the water.

After 20 minutes hang some old bags or nets over the cylinder door, so that half of each bag hangs between the cylinder and shell. Lock the cylinder door securely, close the outer door, and run the washer for about 10 minutes with the bags scrubbing the shell.

Next stop the washer and with a strong spray of steam remove the softened dirt and filter powder from the ends of the washer and the top of the shell. A long-handled bottle brush will help where some force is needed.

If a scum has settled on the cylinder, add some more paint remover to the bath. Or you can scrub the surface of the shell with a stiff brush, preferably wire. Then run the washer for another few minutes, remove the bags and dump the caustic solution. If the dump tank is going to be cleaned also, you can drop the bath there.

Fill the washer a third full again, put in about half as much alkali as used the first time, heat it to 120 degrees F. again, and run for five to seven minutes. This "suds" is followed by a couple of warm rinses and a cold rinse.

Run in about a third of a washer full of solvent, throw in some clean cotton rags, and run for several minutes to pick up the moisture left in the washer. Repeat with more rags, or extract and rerun the same rags, if necessary. Then empty the solvent out of the washer and leave it open over the week end to dry. On Monday morning, when filling the washer for regular use, run some cotton rags before precoating.

To clean out the dump tank, enough water should be run in to fill it about three-quarters full. About 20 pounds of caustic soda should be added for each 100 gallons of water. With both the manhole and vent open, insert the steam hose and bring the water just to a boil. Hold it there for as much as an hour.

It isn't wise to let the steam hammer in an old tank, as there is a possibility of springing small leaks that would grow rapidly once started. A device for getting a swirling action is a T on the end of the steam outlet (pipe in this case). A couple of nipples fit into the T and are capped with elbows which face in opposite directions. The steam shooting out of these elbows starts the bath swirling and aids in scouring the walls of the tank.

This steam-heated water must be cooled before it is drawn off through a solvent pump. This was the reason for not completely filling the tank, as it can be cooled by filling it to the top with cold water. Otherwise, the hot caustic solution would eat through the grease and packing in the pump in short order. An alternative is to borrow a hand pump from a local hardware store, or possibly the sanitation department.

Rinse the tank out with at least two full warm-water rinses. Then let it air as long as possible. Before putting solvent into it again, swab out the water that ran down the sides to the cone. A long stick or piece of pipe with rags tied securely to the end can be used for this purpose. Then fill the tank with solvent. Pump the solvent up to a washer, and run a load of rags in it to pick up any moisture that is remaining.

Just for laughs, of course, the "clean" storage tank should be washed out in the same way, once a year at least. This is especially true if the clean tank is underground. But in any case you might be surprised at what collects there in 12 months.

Solvent is frequently delivered in trucks used to carry other petroleum products. Traces of these are picked up by the solvent and settle out in the cleaner's storage tank. Water condenses in tank and pipes, slowly accumulating at the bottom. Rust and scale add to the sediment. If distilled solvent is stored there, traces of acid entrained with moisture are added. Finally, leaky valves in your piping and even absentmindedness on the part of your cleaner can go to foul up your "clean" storage tank.

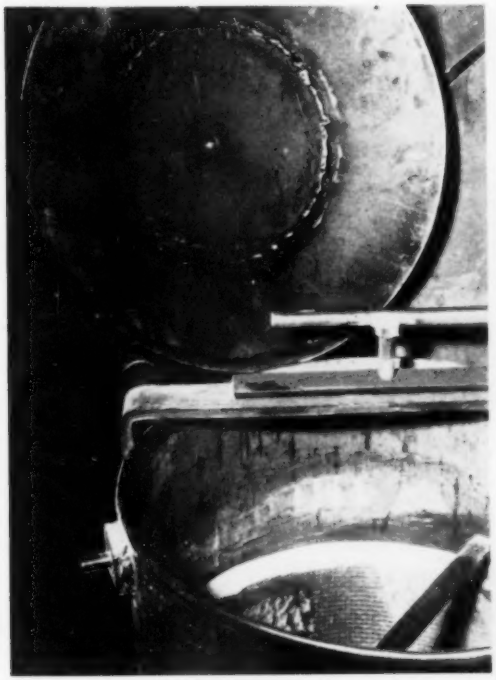
Many a stubborn odor problem has cleared up when, after cleaning everything else in the plant without success, the drycleaner finally boiled out his "clean" tank.

A lot of headaches connected with keeping the dump tanks clean have been eased by setting "muck catchers" or filters for muck and lint in the lines to the dump tank. These are placed either above ground, or just below the surface with a cover that exposes the whole trap.

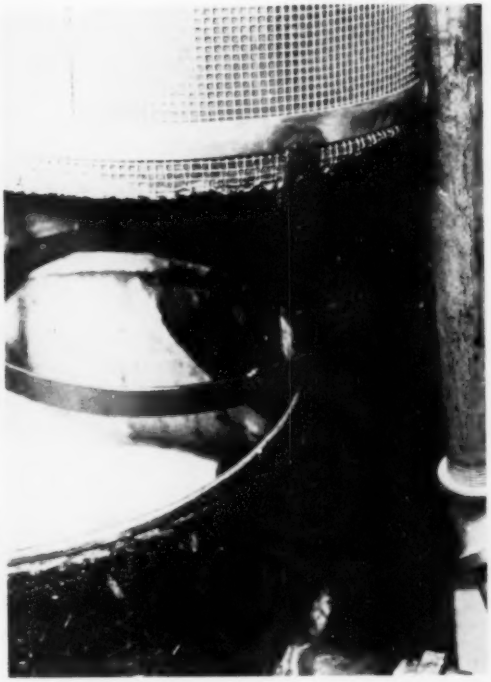
One model is made of a soap drum divided across the middle by a baffle. This baffle is perforated with many quarter-inch holes. Above it, on the inlet side, are kept at least four inches of rags. These filter out both the extraction solvent and the drainings from the filters. The by-passed ends at the termination of a still run also pass through, but since most of this is in solution, the muck catcher filters out little of the ends.

The rags are pulled from the muck catcher whenever necessary. The top layer can be discarded with the muck. The rest of the rags are washed in alkali and hot water, dried, and put back in the muck filter with enough more rags added to build up to four inches again.

Another type of muck catcher, illustrated here, is a basket set into a 55-gallon soap drum. It is made of quarter-inch wire screen outside. Nested in this is a lin-



SOAP DRUM and inner basket make muck catcher. Note clamp across top



LEGS OF STRAP IRON welded on strap-iron circle which fits into drum

ing of very fine mesh copper screening, fine enough to catch the filter powder in the muck. This type of device can be emptied and steam-cleaned at intervals of from one to four months.

Washers Are Tough, But—

A washer and a press are probably the two most taken-for-granted pieces of equipment in a drycleaning plant. Since they do the least "complaining" they generally get the least routine attention. This is in spite of the fact that they are the two basic units in the modern drycleaning plant.

Because of a washer's reversing action, it is particularly important to maintain proper tension on its drive chains or pulleys. That jerk that comes each time the cylinder reverses means there is slack in the chain. It can damage the driver in time, and it is a strain on the whole washer in the long run.

The brakes on a washer should stop the door quickly when inching or spotting a cylinder door with a capacity load in the washer. They should be adjusted to hold the cylinder tight when not in operation. Care should be taken to adjust the brakes evenly, so that all the wear won't be on one side of the brake lining. When no further adjustments can be made to tighten the brakes enough to hold the cylinder, the linings must be renewed. This is urgent, for the safety of the operator as well as for the sake of the garments and equipment.

All belts should have full tension without slipping. If the pulleys are in alignment the belts should track properly. Endless flat belts are preferable on belt-driven equipment, but belts that are shortened should be trimmed with a T-square so they will run evenly. Screws on the pulleys shouldn't be overlooked when the rest of the nuts and bolts on the washer are being tightened each month.

A washer should be kept tight all around. Foundation bolts should hold it firm. Cylinder and shell bolts should prevent any play in those bodies. Washer and cylinder doors should be snug as the peel on an orange. If there's play in the door hinges, put bigger pins in them.

If the latches in the doors are rattling, replace them or have a welder build up the worn spots. Latches and latchkeepers should be checked to see that the rivets or bolts holding them are tight. Otherwise, free play in the latches will rapidly increase their wear. On many washers, when the latchkeepers (sockets) become worn they can be reversed to opposite sides of the door. There they will work effectively for some time because a different wedging surface will then be used.

Signs of solvent leakage around the gudgeons calls for tightening the stuffing box glands. On some washers this makes it necessary to remove the cover plate from the gear guard for inspection and adjustment. If tightening is ineffective, the packing should be replaced. At no time should the stuffing box glands be any tighter than just enough to prevent leakage.

In any case, the gear and belt guards should be examined and tightened. The automatic steam fire extinguisher and door-closing devices should be operating freely. Live steam must be available at the valve of the fire extinguisher. The safety relief doors should be tight but be able to open freely, clear of all dirt and lint.

What can happen to the static grounding wire? Vibration can shake it loose. Bumping it can wear it through or knock it off. Dirt and corrosion can foul up its contacts. Brushes on the grounding device should

be clean and in firm contact with the collector ring.

Then there's the case of the Midwestern cleaner who carefully grounded his static line to a cold-water pipe, per instructions. Only somewhere in the passing years both ends of the pipe had been cut off, leaving it hanging free!

No matter how good your detergent is, a deposit builds up on the sides and bottom of your soap tank or crock. It should be cleaned out each time a new stock solution is mixed—but anyway, once a week for sure. Also a metal trough or tray, two inches wide by two inches deep, should be in front of each washer to hold the drainboards. It keeps the floor neat and safe, saves a lot of solvent in a year's time.

Dirt, soap and lint can cause corrosion in a washer and can redeposit on garments with a tenacity that makes them extremely hard to remove. To test a washer for accumulations of soil, soak a piece of cheesecloth with alcohol. Rub it on both the cylinder and the inside of the shell. If the cheesecloth comes away badly smeared, it is time to rigorously clean out the washer.

Extractors Are Easy

An extractor deserves to be checked weekly. Normally, there is probably no more trouble-free piece of equipment in the plant. Abused, it can deteriorate in a hurry. Careless loading or an insecure foundation bolt can soon get the extractor to hopping in a manner calculated to increase wear on all its moving parts.

Once a month, therefore, the extractor should be checked for levelness by setting the level across the top of the basket in several directions; have all screws, nuts and bolts, including the foundation bolts, tightened; have oil added to the spindle reservoir and the bearings oiled or greased; have the rubber balance rings checked to see if they keep the basket level; be checked for brake adjustment and for proper belt tension, alignment and tracking.

The inspector should also make sure that the safety cover is functioning properly.

Once a year the extractor should be completely dismantled, inspected and cleaned thoroughly, particularly the spindle bearing. The balance rubbers should be replaced if they can't be adjusted any more. The brake lining should be replaced if it can't be tightened much further.

Forgetting to "dress" flat belts or to maintain proper tension on either type of belt can allow an extractor to run as much as 200 r.p.m. slower than it is supposed to. This can result in extracting up to 25 percent less solvent than is normally possible, with solvent costs amounting to as much as 20 cents more per 100 pounds of clothes. In addition, the tumblers need to run as much as 50 percent longer to clear the loads.

Tumbler vs. Lint

Maintenance on a tumbler means lint control above anything else. You can get into more kinds of trouble involving lint around a tumbler than anywhere else in the plant. Conditions are ideal, because the tumbler is drawing many cubic feet of lint-laden air, while the garments themselves are dry enough for the first time to give off the lint, after being subjected to considerable mechanical action in the washer and extractor.

Lint, dust and dirt can actually cake the heating coils of a tumbler heavily enough to insulate them and cut down the transfer of heat to the air passing through. They can cake the fan motor, insulating it enough to make it run dangerously hot. Lodged on the sensitive thermocouples of thermometers and thermostatic controls that extend into the stack, lint can spoil the proper working of those pieces. Clinging to a solenoid, lint can very effectively foul it up.

So, a drycleaner ought to go over his tumblers with an industrial vacuum machine like an elephant probing a fat man for a peanut. Or at least, he ought to go after the lint with high pressure air and a good stiff brush.

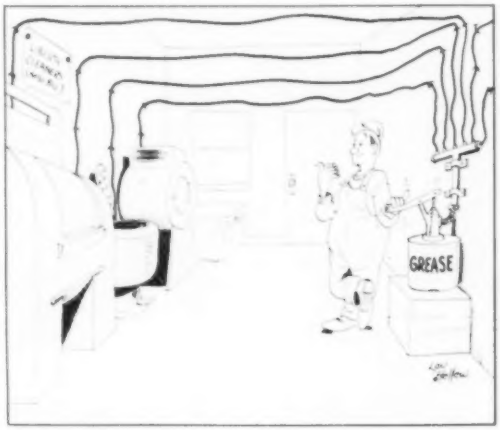
This should be done at least once a week. It wouldn't hurt to do it daily. Let's repeat that idea—**it's good practice to clean the lint out of your tumbler daily.** It will speed up your tumbling time, cut down linting of garments, eliminate graying of light wools in the tumbler, hold down shrinkage of loose wools and, rare as tumbler fires are nowadays, it will make them practically nonexistent.

Besides the places mentioned above, lint should be removed from the air filter on the intake, if you have one—and you should. The ledges around the air intake, just above the coil, need clearing. Lint should be removed from the blades of the fan, particularly if you use much steam during tumbling. The steam seems to make the lint pile up on the fan blades. This sets a fan to vibrating, causing the motor to overheat and wear out faster.

If you have a lint screen in a box at the base of the stack, that should be cleaned off every two hours on a day of steady running. The stack itself should have every elbow accessible to a door for cleaning it out, either by hand or by a short stick with a rakelike end. This is also true of projections in the tumbler, such as the thermometer, the controls and dampers.

In cold climates tumblers should have dampers in their stacks near the walls or ceilings. Otherwise, cold air has a clear path to freezing the coils and pipes, as many cleaners have found to their sorrow. Such a damper should be cleaned regularly. (Also, the cleaner must remember to open the darn thing in the morning and close it at night.)

There is a louvre that has proved satisfactory if the stack doesn't have too many bends and is large enough to carry full draft. The shutters fly open at the slightest breath from inside the stack, but close tight to outside



winds when the fan isn't running. This louvre, too, needs to be cleaned of lint at least weekly.

A word should be said for lint cages over the ends of exhaust stacks, if you don't have screens at the base of the stack. We have stood on the roof of a plant and watched lint from an exhaust stack slip over the side of the roof—and back through the ventilating fan to the press room. Lint is a like a mouse! Once you catch it, you don't want to let it go again. So, these lint cages should be cleaned frequently also, the frequency depending on their capacity.

At least once a month the front panel of an open-end tumbler should be removed, and the dust and lint cleaned out from between the cylinder and shell. A rag wrapped around the end of a rod will reach in very successfully. The space should then be blown out with air or with steam; finally, the tumbler should be run empty to dry it out and clear out what particles are left.

Besides these special precautions with lint, a tumbler does require some mechanical attention. It requires periodic tightening of all nuts and bolts, particularly where it is bolted to the floor. It should be checked for levelness. Steam lines, valves, traps and packing should be tight and working properly. Particularly, permanently set levers should be checked at least weekly to see that they haven't shifted or been moved. The belts should be inspected and tightened if necessary.

Since a tumbler deals with heat, forgetting to grease or oil bearings can result in worn or "frozen" bearings in pretty short order. Even the oil level in the gear-case oil cup must be watched closely. Also, the level of the oil in the bottom of the reducing gear case on some tumblers, which suffer from having too much oil as well as having too little.

The enclosed-type synthetic solvent machines generally have a door or valve that is open to ventilate the unit while loading and unloading, but is closed while the unit is washing and extracting. Wiping around this door a couple of times daily, particularly on the gasket or lip against which it closes, will cut down the loss of solvent by ensuring that no balls of lint are holding the door "cracked" open.

It is often unwise to replace a grease cup with a grease gun fitting. The cup actually isn't an "old-fashioned device," but was put there to protect a sealed packed bearing. Such a bearing needs only moderate, but regular, greasing. Punching in grease with a pressure gun breaks the seal. The lubricant is no longer kept on the bearing, and the bearing will wear very rapidly. To save the bearing it now has to be greased every few hours, and the leaking seal is likely to let flecks of grease splatter in every direction.

Filters Aren't Foolproof

You almost have to work at it to foul up a filter through improper maintenance—which is the way most filters get fouled up. Cleaners are always trying to run a filter just one more load, or one more day, or one more week, without stopping to clean it out. So they either take longer to clear their loads or else their loads aren't adequately rinsed.

Many ills can be traced to carelessness when cleaning out the filter. When a load won't clear up, there are two possible reasons, and both of them should have been checked when the filter screens were cleaned.

First, the screens haven't been seated squarely back into the manifold. Either the cleaner was careless, or a piece of lint or dirt is preventing a snug fit.

Or else there is a hole in a filter screen. All screens should be inspected closely right after each cleaning for small holes that can be repaired before they get any larger. The same thing is true of bags in a bag-type filter, which serve the same function as a filter screen. All bags must be carefully inspected after cleaning and must be replaced on their frames with care to prevent damage in the process.

These seem like simple things, but filter manufacturers' representatives have made many emergency trips only to find a poorly seated screen or holes in screens or bags. Routine checking at the time of cleaning would have saved them the trips and saved the cleaners their grief.

It seems obvious to suggest cleaning the muck out before it covers the manifold, yet drycleaners have been found who let it build half way up their screens. It seems clear that every square inch of filter screen or bag that is covered by the muck bed is that much less active filtering surface. It reduces the number of changes per hour in the washer by that much.

Pumps have been blamed when actually the filtering area has been reduced by muck. However, the pump should be tested every three months by slowly closing off the valve on the inlet side of the filter. If you start with a new precoat showing almost no filter pressure, and then can't get over 20 pounds pressure with the valve closed, the pump needs repair or replacing.

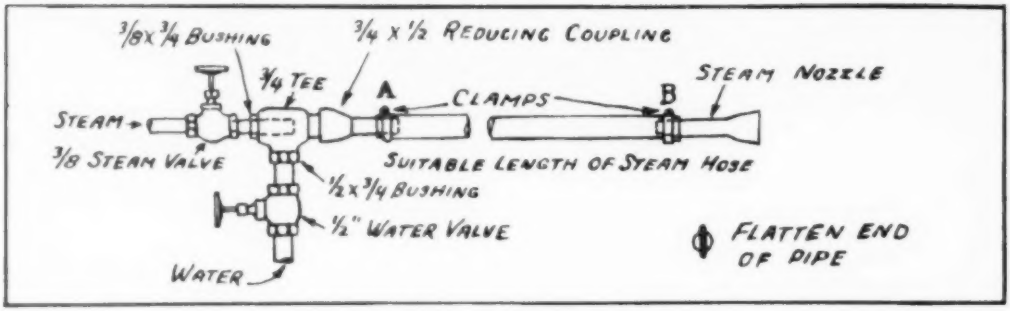
If a good precoat is put on the filter after each scrapedown, and if powder or sweetener is added with every load, it is practical to scrape the screens down quite a few times before the screens are cleaned. The time to take the screens out and steam-clean them is when just putting on the precoat runs up filter pressure to five pounds above normal starting pressure.

The best device for cleaning filter screens is a hose that delivers steam and water combined, for steam alone is likely to bake the slime on to the screens, making it harder to remove. A "mixing tee" is illustrated on the next page, with steam at boiler pressure coming through the head and water entering the side leg. A nozzle is made by inserting a piece of pipe in the end of the hose. The end of the pipe is flattened to give a wider and more forceful spray.

The water is turned on first, with a stream about half the thickness of your little finger, then the steam is released. The nozzle is held two or three inches from the screens at an angle of 45 degrees or sharper. The screens should be stood on end on blocks, with the spigot at the bottom so the screens can drain.

The steam from the hose nozzle is swept slowly back and forth across the bottom of the screen to loosen that first and clear the way for the rest of the soil. Then the sweeping spray is moved up the screen, then down again. The whole screen should be covered about three times in this manner, then turned around and treated the same way on the other side. **At no time should the steam be shot into the spigot.**

If the screens don't respond to this treatment (may they never be left uncleaned *that* long), try boiling them in a caustic bath, using a pound of 76 percent flaked caustic to every three gallons of water. A soap or solvent drum with the end cut out will make a good bath-



TEE AND NOZZLE used for steaming filter screens

tub for the purpose. The screens should be boiled gently (caustic splatters dangerously if boiled hard) in such a bath for three or four hours. Then remove the screens one at a time and steam-clean them, as described above, to rinse off the caustic and loosened dirt.

Filter screens must be absolutely dry before they are replaced in the filter. If you can steam them on a sunny, windy day, they will dry quickly out of doors. Otherwise, it is advisable to set them in a drying cabinet to make sure all the interstices of the screening are completely dried out.

Screens and filter bags should be scraped down only when the filter is full of solvent. Then the powder and soil should be given time to settle before the solvent is drawn off to the dump tank. Otherwise the dump tank fills so rapidly with sludge as to need cleaning every few months. The wait should be at least five minutes, but an hour is better.

More effective, of course, is the practice of forcing compressed air into the filter, reaching two or three pounds pressure. Since the solvent isn't compressible, the sludge squeezes down flat in the bottom of the filter under the air pressure. Thus the solvent is relatively clear of solid matter when it is drawn off, and the sludge is compact rather than soupy, handling much more easily.

Sludge pans should be cleaned after each usage, and should be stored or racked off the floor out of the way. Thus no filter-muck dust will be floating around the cleaning room or the backyard after the pans have dried. Nor will a coated pan be a fire hazard while surrounded with solvent fumes.

Vacuum Stills Have Four Factors

A vacuum still seems complicated at first glance, but when you break down its operation to four parts, it becomes easy to run and easy to maintain. An atmospheric still, such as used on most synthetic units, follows the same principles except for maintaining a vacuum.

The four factors in the design of a vacuum still are: (1) the vacuum, (2) heat, (3) water, and (4) solvent.

When your gauge shows the still isn't maintaining the proper vacuum, it is natural to blame the pump first. However, you should first check for vacuum leaks around the packing gland on the pump shaft, in the supply line stretcher cover, in the gauge-glass fittings, in the valve packing glands, or in the bottom drain valve. Many cleaners keep a plug for the drain valve, thoroughly lined with grease, since the valve often gets scored with grit in the still residue.

If all those points appear to be tight, then check your pump by setting a vacuum gauge on the line ahead of the pump and breaking the line on the outlet side. If the gauge can't be pushed up to 27 or 28 inches, then your pump probably is at fault.

If the pump is okay, then test the still body by closing all valves but the outlet and running the vacuum up as high as you can, then closing the outlet valve and shutting off the pump. If the vacuum drops more than three inches in a half hour, you probably have a body leak. If you can't find it by inspection, the manufacturer can give you detailed instructions for locating it.

The heat, of course, is dependent on the steam supply. If the solvent isn't vaporizing, it may be that the steam is too wet by the time it is reduced to the 35 to 45 pounds required for a still. The steam trap must be checked to see that it is discharging properly. If these aren't at fault, it is likely that the heating coils are caked or that the residue is deep enough to cover part of the coils, reducing the heating surface in contact with the solvent.

To prevent coating of the coils, the residue should be drawn off while it is still too hot to congeal. If the still hasn't run enough to warrant this, it is important to boil the residue down as far as possible. It really is more practicable to accumulate enough dirty solvent to run a couple of hours and draw off the residue every time.

When the coils do become coated enough to seriously reduce their efficiency, they must be cleaned off. Some stills have suction inlets for pulling a caustic solution into the body, where it can be boiled *slowly* for a couple or three hours to loosen the caked slime. It must be boiled slowly because the caustic will otherwise be thrown over into the condenser where it might settle in corners and corrode the pipes.

Some manufacturers prefer not to have caustic used in their stills, and either provide handholes for steam-cleaning like filter screens, or else have holes large enough to permit pulling the coils right out of the still for cleaning.

Water problems occur in two ways. One is water in the solvent. A leak in the condenser carries clear water into the rag filter. If the water is on in the condenser, and the vacuum pump is run without turning on the heat or solvent in the still, a fine trickle of water will come over into the rag filter when there is a leak in the condenser. This will show up as clear bubbles on top of the rags in the rag filter.

If the distilled solvent is colored slightly and reacts to anhydrous copper sulphate, the water present probably comes from heating the still too fast and kicking over water entrained (mixed) with fatty acids that pass through the rag filter without coming out. This is gen-

With the exception of methods of washing out equipment, most of the information presented here applies also to chlorinated solvent equipment. Maintenance is even more important, if possible, on the synthetic units. Because of higher volatility, plus the cost of the solvent, solvent losses are to be carefully guarded against.

Piping joints should be cemented with a special dope, available from the manufacturers. The grease and lubricants used must follow specifications exactly, because of the greater action of chlorinated solvents on these lubricants. Warped dampers and sprung or bent control rods must be straightened, or solvent goes out the stack by the pound.

Water in the condensers must be watched for proper temperatures much more carefully in both the stills and the recovery units. If room temperature happens to be 90 or 100 degrees, and the water is at room temperature, not much synthetic solvent will be getting condensed at that temperature. On the other hand, it frequently isn't necessary to waste water, particularly in winter, by keeping valves on the condensers wide open.

With so many different pieces of equipment all hooked together in one compact unit, vibration control is most important: making sure the unit is level to start with; tightening up screws, nuts and bolts at monthly intervals; replacing shock absorbers and springs at the first sign of weakening; replacing bearings before they are seriously worn; keeping V-belts tight, etc., etc.

Like any servant and master, drycleaning machinery serves him best who serves it best!

erally the result of too high steam pressure in the coils.

Water trouble in the condenser is revealed when the solvent starts coming out too hot and the water too cold. It usually means that the pipes have become scaled. Most still manufacturers can recommend compounds to be used to clear out this scale in hard-water country.

Both the water tubes and solvent jacket of the condenser ought to be flushed out once a month. On the water side, the water is run in through the outlet at the top, after draining the tubes, and the turbulence helps wipe the scale and slime off the walls of the tubing. The water is run in and allowed to drain out at least a half dozen times.

On the solvent side, there is usually a plug or an opening at the bottom of the condenser which can be used to drain off any solvent in it and then to introduce fresh solvent at the point where it will stir up the sediment collected on the bottom of the condenser. Several batches of solvent can be run in and then pumped out, by the vacuum pump, through the still by-pass to the dump tank.

One more trouble may cause the still to be slow in operating. If the float in the chamber regulating the flow of solvent gets stuck open too far for too long, the still body gets flooded with cold solvent that is too much for the coils to handle efficiently. The chamber should be flushed out once a month, at least. The feeder valve is thoroughly cleaned at the same time.

A still can be saved a lot of grief by using an aboveground settling tank ahead of it. The line to the still taps this tank slightly above the top of the cone. Most of the gunk, filter powder and water settles into the cone and is cleaned out regularly before it builds up to the top of the cone. Thus, if the dump tank is kept moderately clean the solvent has two chances to settle clear before going into the still. A strainer in the draw-off line to the still catches particles that may swirl into the pipe.

All of the above checks suggested for still operation and maintenance ought to be performed at least once a month, if the still is in continuous operation. Once a week the rags in the rag filter should be washed in alkali, rinsed, dried and replaced in the filter. Once a day they should be removed and extracted.

One final precaution—on a vacuum still the pump needs extra heavy grease, and the grease cup generally needs to be turned down hourly when the still is running steadily.

Poor Pumps Mean Poor Cleaning

Like bees, pumps are always busy, and as with bees, it's darned hard for you and me to determine if they are doing the job they are supposed to. In fact, the odds are probably on the bee. This is not a criticism of pumps, but of the general way in which people take care of them.

The only positive check on whether a pump is delivering is a flowmeter. It is handy to have around the plant and for the purpose not particularly expensive. It does require being able to break into lines, possibly temporarily replacing check valves or globe valves for the length of time necessary to get the data needed. A few cleaners keep flowmeters hooked up permanently.

Proper installation is probably more important to a pump than to any other piece of equipment in the plant. Once a month a cleaner should check each pump to see that the conditions of installation haven't changed.

Motor and pump have to be in perfect alignment. A new pump should turn freely by hand. The pump base should be bolted down tight to eliminate vibration. But in bolting it down, care must be taken not to twist the base the little bit that is enough to throw pump and motor out of alignment.

The base should be bolted to a good solid foundation. Shims should be used until the base sets flat and square *before* pressure is applied to the bolts. Then the bolts are turned down securely. When checking the pump each month, while tightening the bolts, notice if a new crack shows in the floor, or if the panel or platform on which the pump is set appears to have shifted.

A twisted pump wears fast, loses its best efficiency very soon. Replacing it doesn't solve the problem, because it is customary to replace only the bare pump. Thus the new parts on the old base could still be subjected to the conditions that wore out the original pump in the first place.

Besides the gauge testing suggested previously, the condition of a pump can be determined by inspection. Remove the head. Any wear will be quite noticeable, and there will be an excessive amount of play in the parts. It will help increase the effectiveness of the pump to remove one or more layers of the head gasket, until there are no more layers. Then it really is time to replace the pump head.

If properly installed, pumps are worn most by what's passing through them. Lint and button traps should be cleaned daily, but *not* while the pump is running. Line strainers ought to be cleaned out at least weekly. Both must be checked for holes or breaks and should be patched or replaced immediately. Monthly isn't too often to open the pump and clean out any lint caught in the impeller or idler.

Solvent lines around a pump can't afford to leak. Leaks on the suction side cause a pump to suck air, become noisy, reduce suction, pass on air bubbles that

disturb a filter powder coating, cause excessive action on the part of automatic valves. On the discharge side of the pump the solvent loss becomes excessive. A mixture of lampblack and shellac is recommended for pipe joints in contact with drycleaning solvent. It makes a tight seal that comes apart easily when disassembling the piping.

Greasing pumps is a daily task. On vacuum pumps it should be done almost hourly under extreme conditions. Packing glands should be kept just tight enough to prevent leaks. If they are too tight, the packing will bind on the shaft, causing it to run hot and possibly become scored by the packing.

Compressors Get Overlooked

If there is an out-of-the-way corner in a drycleaning plant, that's where you'll find the air compressor. Frequently it labors alone in the basement. And, because nobody is constantly stumbling over it, the compressor often gets too little maintenance, even compared to the remainder of the equipment in a drycleaning plant.

Daily the air receiver ought to be drained. Every week the compressor should be wiped down, and the suction muffler and finned tubes cleaned with air or a vacuum. At intervals of 300 hours (six weeks to two months) the crankcase should be drained, cleaned and refilled. Its oil level should be checked weekly. Also at the 300-hour interval, the bearing grease cups should be refilled. These must be turned down lightly each day.

Once a month the belt tension should be checked, and at the same time the relief valve on the receiver ought to be tested. Twice a year the strainer of the trigger valve (pressure control regulator) gets a cleaning. At least semi-annually all nuts and bolts should be tightened, including, especially, the foundation bolts. Also, the whole unit should be checked for levelness.

If the compressor is noisy, there may be too much play in the main bearings, crank pin or wrist pin bearings. Following the manufacturer's instructions the machine should be dismantled and the bearings replaced. The noise may also be caused by loose pulleys, or by the pulleys being out of alignment.

Finally, the noise on some compressors may be caused by the pounding of the air as it enters the receiver. Most units are equipped with a muffler inside the tank to break up this thrust of air. A fair substitute can be made, if there isn't a muffler, with a pipe nipple attached to the inlet, within the tank. The end of the nipple is capped, and the sides are perforated with enough holes to more than equal the outside diameter of the pipe.

"You people should make heads that don't need polishing so often."

Specific oils and greases are part of the design of a machine. The engineer who specifies a particular bearing for his equipment knows it requires a certain type and grade of lubricant. The machinery manufacturer tells you what it is in the instructions that come with the machine. It is a mistake to use any lubricant other than the one recommended.

So many factors go into determining the proper lubricant for a particular bearing that one or two required properties may be missing from an oil or grease claimed to be just as good. Some of the factors involving the problem of lubricating a bearing are the speed of rotation, whether it reverses, how much weight is involved, whether it is upright or horizontal, tapered or cylindrical, in hot or normal surroundings, subject to leverage or twisting, solvent, water, steam or air, loose or tight, etc., etc.

You don't have to know why all this matters! We just want to impress you with the fact that you should stick to manufacturers' recommendations when it comes to oiling and greasing.

Failure to build up pressure may have one of several causes—all resulting in leaks. Likely offenders are the head gaskets, discharge flange gaskets, discharge pipes, check valves, outlet valves, drain valves, relief valves, and leaking or broken feather valve strips in the compressor.

If there is any possibility of a compressor drawing dirt, dust, water vapor, or any foreign matter at its particular location, the suction line should be run outside, or to some place where it can draw clean, dry air.

To eliminate having moisture and a certain amount of vaporized oil carried into equipment using compressed air in the drycleaning plant, there should be blowdown valves in the air line. To clear as much of the line as possible, these blowdown valves should be near the equipment to which the air line goes. Also, air filters should be in the air line, if the equipment is not properly provided with one.

It would not hurt to clear these blowdown valves daily and clean these air filters at the same time. With the modern drycleaning plants installing more and more air-driven or air-controlled equipment, proper maintenance of these air lines becomes of vital importance.

Today we have, among other pieces of air-operated equipment, drycleaning machines, both synthetic and petroleum, soap tanks and injectors, automatic tumblers, filter-sludge compressors in filters, spotting boards, marking machines, garment presses, drapery presses, shirt finishing units, spray guns, bagging devices, automatic doors, and any number of homemade gadgets that ingenious cleaners have devised for special purposes.

Not long ago the air compressor was a luxury in the drycleaning plant. Today it is a very important member of the equipment family.

The Rest of the Plant

We said presses were sadly neglected, though one of the two basic pieces of cleaning equipment! Maintenance is so simple, so much a part of regular operation, that it hardly seems like maintenance. So we don't bother!

Does the trap work? How about the steam and vacuum valves? Are the joints tight, as well as the flexible hose? Does the padding resemble a relief map? Are cover cloths the color of a plowed field? Is the grid head unbroken or the polished head really polished? Can you keep employees from sitting on and breaking the tables? Have the bearings been greased? Once a week isn't too often to check on each of those points.

Is steam pressure as high as it should be?

Steam irons are the most uniformly abused piece of equipment in the plant. Ninety percent of the leaks and headaches blamed on the steam irons are due to their being used at excessively high pressures. Steam irons are meant to work at 15 to 20 pounds pressure. Here is where reducing valves are most urgently needed.

Depending on how steadily the irons are used (all day by a hand finisher or for touch-up only by a unit operator), steam irons should be checked monthly or at least four times a year. They should be taken apart and cleaned, the hoses inspected, tightened or replaced, the main steam valve taken apart and cleaned, and possibly the packing, discs and tension springs replaced.

Spotting boards should be cleaned daily. Valves and traps ought to be inspected monthly. Also, the steam-gun hose may need replacing, if pieces have been cut from the ends when they frayed or split.

The air intakes on windwhips, garment driers and steam forms should be cleaned of lint twice a day. Where clamps are used the clamp pads ought to be inspected weekly and replaced if necessary. Bags should be inspected and mended weekly. Motors and fans ought to be cleaned weekly, oiled when specified by the manufacturer.

A wet washer with a wood cylinder ought to be run at least once a day to keep the staves damp, so they don't shrink. The cylinder hoops should be kept tight, when the staves are wet. Also, a scum forms from always washing at a low temperature in the wetcleaning room. This scum can be removed once a month, at least, by using any of the alkali builders at about 180 degrees F.

Wetcleaning tables, or any kind of table, ought to be resurfaced when the wood gets slightly rough, as splinters are likely to show up abruptly. Masonite makes an excellent, long-wearing, nonglare surface.

Prespotting tubs can be classed as another forgotten area. Because smears picked up by garments from the tub are expected to "come out in the wash," operators tend to overlook the gunk that lies in many prespotting tubs. Yet this stuff smears garments, collects dust, and adds its bit to the flammability of the cleaning plant.

How many plants turn their canvas baskets over when they are sweeping so the dirt, paper, pins, buttons, etc., can fall out on to the floor and be swept up? While the baskets are turned over the lint and threads that have wound around the casters should be peeled off. Once a month the casters ought to get a drop of oil apiece. Little tears in the canvas should be mended before they get bigger.

Wax on slide rails seems to get lumpy. Parts of it fleck off on to the garments passing underneath. Instead of waxing, it appears more effective to buff the tops of slide rails and smooth them down with emery paper.

How do you spot a leak when it *first* starts?

It's difficult to tell when a leak starts but if you keep the equipment absolutely clean, the stain around the leak will soon reveal it—no matter what substance is leaking on what metal. Even if dry steam or chlorinated solvent seeps through and evaporates instantly, it attracts enough lint and dust from the air to build up a little coating around the leak faster than on other parts of the equipment.

Only on rusty, dusty, gummy surfaces is it impossible to detect a leak until it gets very bad!

Lubrication

One week, two at the most, around the average cleaning plant is enough to plug an oil hole with lint and grease that will be gummy enough to keep oil from getting through. One suggestion is to carry a small straight-shank twist drill for reaming the gum out of oil holes and cups before refilling them.

A bearing may be suspected of not being thoroughly lubricated if the grease cup or oil cup suddenly takes less than usual. This would indicate either that the opening under the cup was plugged, or that a buildup of old grease and foreign matter was ringing the bearing to form a dam, preventing spread of the lubricant.

On the other hand, a clean bearing that is gulping the lubricant faster than normal is usually either running too hot, or else is so worn that the lubricant is actually leaking out of the bearing, which can be checked visually.

Special care should be used in oiling all ball bearings. Manufacturers' instructions should be followed to the letter. It has been said that "more ball bearings are destroyed by over-lubrication than by lack of lubrication."

V-Belts and Chain Drives

The quickest check for slack in a V-belt is to hit it with your hand midway between pulleys. It should have the springiness of an inflated automobile tire. If there is no springiness it probably needs tightening. Not only does a slack belt lack firm traction on the pulleys, but because of the sag there actually is less surface in contact between the belts and pulleys. Also, a slack V-belt gets stretched more rapidly than a tight one, because of the jerk that occurs each time the motor starts up or the gears reverse.

Don't roll, pry or force V-belts on to pulleys. Always loosen the bolts holding the motor base and avoid the danger of damaging the belts, pulleys or motor. You'll probably have to readjust the motor, anyway, to get the proper tension!

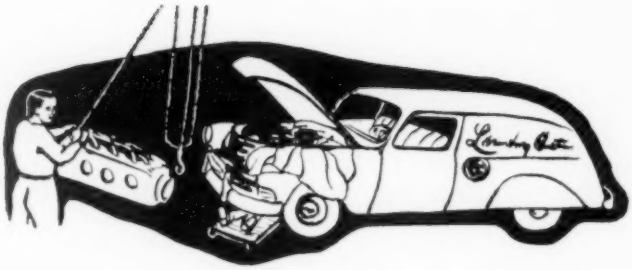
Also, when replacing V-belts, install a whole new set, because one or two old slack belts will throw the whole burden on a new belt. If you're terrifically Scotch save the best of the old belts strictly for emergencies. Then they are more likely to be used with belts of their own age. You'll get longer wear out of both your new *and* old belts.

Don't use oil or dressings on a V-belt!

To check slack on chain drive equipment, turn the gears until one side of the chain is taut. Lay a straightedge against the other side and press your finger against the chain to see how far it can be bowed from the straightedge. If the distance is a quarter of an inch or more, the chain needs tightening, until there is only a little play on the slack side of the chain.

It is unwise to attempt to tighten the chain any further. It would only put added strain on the motor shaft without achieving any more driving effectiveness. It also increases wear on the sprockets unnecessarily. Because of the positive action of a chain drive it never has to be as tight as a belt. # #

Delivery Costs Stay Down



THE LIFE AND PERFORMANCE of a truck are more at the mercy of the man who operates it than those of any other piece of equipment belonging to a drycleaning plant. That's why it is important to discuss the man before we discuss his vehicle. Without thoughtful selection and training of routemen on a basis of careful truck operation as well as salesmanship, the work of the regular truck maintenance personnel is largely wasted.

For instance, the National Safety Council has found that a very small percentage of drivers are responsible for most accidents. A check of 1,400 drivers throughout several industries showed that no more than 5 percent of them were involved in almost exactly one-third of the accidents. Over half of the accidents involved only 10 percent of the men. Three-quarters of the drivers had no accidents during the year in question.

The Greater Los Angeles Safety Council made an exhaustive study of qualifications for good drivers. They found that among drivers with the best safety records home ownership was very high, divorces were very low. General education and experience in driving had little bearing on the driver's safety potential. His attitude did! A driver's respect for other people's rights and property is the top qualification for safe driving.

Test—and Train

Many of the firms providing test services for hiring are qualified to report on a man's safety potential. In addition, at least 35 colleges and universities, according to the Dodge Division of Chrysler Corporation, "now conduct courses for training truck fleet supervisors in the proper administration of driver selection and training techniques."

Dodge lists the following:

Texas A. & M.
University of Arizona
Arizona State College
University of California
University of Connecticut
University of Denver
University of Florida
Georgia Tech.
Iowa State College
University of Kansas
Tulane University
University of Maryland
University of Michigan
University of Minnesota
University of Missouri
Montana State College
New York University
North Carolina State
Northeastern University
Northwestern University
Ohio State University
University of Oklahoma
University of Nebraska and Omaha
Oregon State College
Penn State College
Purdue University
University of Richmond
University of Southern California
University of Utah
Vanderbilt University
University of Washington
Marshall College, W. Va.
University of Wisconsin
Casper Junior College, Wyoming

Most of these schools either conduct periodic driver clinics, or have qualified experts who can arrange to work with operators locally. Testing equipment may be purchased at low cost, borrowed in some instances, or even made from plans provided by the schools. Where the drycleaner feels he is too small to handle such a program himself, he may well team up with other fleet operators in his home town, either other cleaners or non-competing firms, to obtain such services on a co-operative basis.

The route foreman is probably best qualified to take this training because, while he need not necessarily do

"Country route today, Joe?"

the testing of applicants for drivers' jobs, he certainly is the one to carry on with training the routemen.

Training in truck operation pays off! Besides at least halving the accident rate, which is a common experience, it results in lowered operating costs through savings in wear and tear on equipment, increased use of equipment, lowered insurance rates, and better relations between the drivers and their employers and customers. Therefore the route foreman should prepare and persist in a careful program of training in truck handling.

Good driving habits must be practiced until they become thoroughly ingrained. Routemen must be checked frequently on their driving technique, particularly if their trucks are in for repair too often or depreciate faster than the fleet average.

Skill, safety, courtesy and truck care seem to be all bound in together. A driver may make fewer calls by carefully observing traffic rules, but this is more than offset by avoiding delays due to breakdowns, chatting with the police, or having the truck laid up. The effect of good driving on public relations may be hard to measure, but you can hear about the bad drivers at any bridge table.

E. R. Behnke, delivery manager of Marshall Field & Company, Chicago's famous department store, stated at a safety meeting: "If a driver always gives way to the other person out of courtesy, isn't he driving safely as well? Our courtesy-safety program repaid us a thousandfold. In 1944 our trucks were in only seven accidents, as compared to 199 in 1935. For their safe driving we reward our drivers with honorable mention for the first three years, and with cash after the fourth year. The amount increases each year as a driver adds to his no-accident safety record."

A new term for good driving is "defensive driving" which means watching the road and rear-view mirror constantly trying to guess what everyone else is going to do next. Best definition we've heard of "defensive driving" is driving as though every one else is crazy or drunk.

This would include, for instance, the rule for leaving a space between you and the car in front equal to 1½ times your speedometer reading, measured in feet. At 10 miles per hour you should be 15 feet back, at 30 m.p.h. you should lag 45 feet, and at 50 m.p.h. (country route?) you ought to stay back at least 75 feet, except when passing. (Of course, if you drop back that far in New York or Los Angeles, at least four cars will fill the gap at once.)

Careful Driving Saves Truck

To help impress on the new driver how much care is given a truck, and why he should baby it, Fishburn Cleaners and Dyers of Dallas, Texas, puts him in the garage for a period of up to a week. Here he helps the maintenance crew with an entire 1000-mile checkup and watches a major overhaul. He's made acquainted with the entire routine of truck maintenance and the part he will play in it, which at Fishburn's is substantial.

Babying a truck means care in lots of little things. For instance, checking behind it for top clearance as well as side and rear clearance before backing up. Or checking side and rear doors before each start, and reporting defective latches immediately on return to the plant.

Also, the driver warms up the motor until the thermometer reads normal before starting out in the morning. Nor does he jazz the accelerator pedal up and down to warm it, which prevents the oil from getting completely up into the cylinders, but sets the motor slightly above idling speed and lets her run until warm.

The driver who cares for his truck doesn't "jack-rabbit" it. He doesn't blast off from in front of a customer's house as though he couldn't stand her another minute. He doesn't always try to prove his truck *can* stop on a dime at *every* stop sign and red light. He starts easily and drifts to his stops letting the engine do most of the braking, realizing that the difference in time gained by jack-rabbiting amounts to possibly a quarter of an hour at the end of the day, and his ulcers will be no better for it. In fact, he drives as though his truck had *no* brakes, which cuts their hard usage so much that it triples the life of both clutch and brake bands.

This driver learns to "double-clutch" when shifting gears downward to hold back on a hill, saving a strain on his entire transmission and drive shaft. The procedure is to shift from high into neutral, release the clutch, speed up the motor to bring the second gear up to the speed of his wheels, then depress the clutch and slip the lever into second.

Above all, the careful driver learns the size and turning limitations of his truck. He clears the curbs, saving his tires. He learns how to use "reference points" when maneuvering in tight spots, such as the "radiator ornament," a corner of the windshield, or the fender tip.

One firm with a large fleet of trucks decided to check the vision of all its drivers, some of whom had been with the company for 15 years. Many of them had excellent safety records. Yet the examination revealed that 70 percent of the men either needed glasses or should have their prescriptions changed. In the case of this company an already good accident record was improved by 25 percent within a year.

A conscientious fleet operator realizes that the first 500 miles in a truck's life largely determine the quality of its lifetime performance. One company, at least, goes so far as to put its most experienced driver on every new truck for the first 500 miles, and pays him a bonus for the inconvenience involved. This company's trucks are governed at 30 miles per hour for that break-in period, and every night the driver reports on the new truck's performance to the mechanic assigned to it. This mechanic is also the best available in the garage doing this plant's work.

The driver of the new truck starts by idling the motor until the temperature is in the normal range. He shifts gears at the lowest possible engine speeds, and runs at as slow a speed as conditions will permit.

At 500 miles the new truck is given most of the usual 2,000-mile inspection. The oil is changed, the chassis lubricated and the wheel bearings, wheel stud nuts, drag link, and pitman arm are checked for tightness. The brakes are adjusted, engine compartment and chassis are inspected and tightened where necessary. Then the governor is reset and resealed at either 40 m.p.h. for city routes or 50 m.p.h. for country routes.

All the inspection data is entered in an inspection book allotted to that particular truck. This book is filed in a pigeonhole along with similar books on all the other trucks, and will contain a permanent record on the truck until it is finally disposed of by the company.

After the 500-mile inspection the truck operates at

CHASSIS SERVICE

✓	1. **PITMAN & STEERING ARMS, DRAG LINK & TIE ROD** - Inspect for looseness.
O	2. **STEERING GEAR HOUSING** - Inspect. Tighten steering gear housing bolts.
✓	3. **KING PIN DRAW KEYS** - Tighten.
	4. **CLUTCH LINKAGE** - Examine clutch linkage for any abnormal condition.
O	5. **BRAKE MECHANISM** - Inspect hoses, lines, chambers etc., for leaks - tighten connections. Examine cross shaft, cables, linkage, slack adjuster etc., for abnormal wear. Inspect for oil and grease on drive line type parking brake.
✓	6. **MASTER CYLINDER** - Examine fluid level and correct if necessary. Inspect brake pedal free travel and report.
✓	7. **HYDROVAC** - Inspect and oil hydrovac.
	8. **AIR TANKS** - Drain.
O	9. **TRANSMISSION** (S) - Inspect for leaks. Tighten rear bearing retainer cap screws.
✓	10. **CENTER BEARINGS & BRACKETS** - Inspect for looseness.
✓	11. **UNIVERSAL JOINTS AND FLANGES** - Inspect for looseness.
✓	12. **PINION BEARING** - Inspect for looseness.
O	13. **DIFFERENTIAL HOUSING** - Inspect for lubricant leakage around differential housing and pinion oil seal. Tighten.
	14. **REAR AXLE BREATHER** - See that breather exterior is free from dirt.
O	15. **REAR AXLE BREATHER** - Remove, clean thoroughly and re-install.
✓	16. **"U" BOLTS** (Front & Rear) - Tighten.
✓	17. **SPRINGS** - Inspect shackles for looseness and wear and leaves for breakage or misalignment.
✓	18. **TIRES** - Inspect for unusual wear.
O	19. **FRAME & BRACKETS** - Inspect for loose or broken members.
O	20. **MUFFLER** - Inspect condition of muffler, tail pipe & brackets.
✓	21. **CAB HOLD DOWN BOLTS** - Tighten as necessary.
O	22. **LUBRICATION** - Lubricate chassis according to lubrication chart.
O	23. **DOOR LOCKS, HINGES & WINDOW REGULATORS** - Inspect for wear and proper operation - Lubricate.
O	24. **PAINT & SHEET METAL** - Inspect for general appearance.
O	25. **SAFETY DEVICES** - Is vehicle equipped with the following: Turn Signals____ First Aid Kit____ Reflectors____ Jack____ Clearance Lights____ Flares____ Fire Extinguisher____
✓	26. **LIGHTS** - Test all lights. Inspect lenses.
	27. **FRONT WHEEL BEARINGS** - Inspect for looseness and report.
O	28. **KING PINS** - Inspect for looseness.
✓	29. **WHEEL NUTS** - Tighten all wheel nuts.
	30. **AXLE FLANGE NUTS** - Tighten to torque specifications.
O	31. **WHEEL BEARINGS** - Clean, repack and adjust all wheel bearings - replace grease retainers. Inspect brake lining, anchors, locks, springs, wheel cylinders and drums. Blow out drums and shoes, lubricate shoe anchors.
✓	32. **TOE-IN** - Adjust if necessary. Before Adjustment____ After adjustment____

GASOLINE ENGINE SERVICE

✓	33. **BATTERY** - Take hydrometer reading each cell 1 (Pos.) 1250 2 1225 3 (Neg) 1275 Fill with distilled water.
	34. **BATTERY** - Remove cables at battery - clean terminals - re-install cables and coat with petroleum jelly. Test voltage of each cell. 1 (Pos) ____ 2 ____ 3 (Neg) ____
✓	35. **RADIATOR CORE** - Inspect for leaks. Inspect mounting.
✓	36. **WATER PUMP** - Inspect for leaks. Inspect condition of belts.
✓	37. **RADIATOR & HEATER HOSES & CONNECTIONS** - Inspect for leaks, cracks and deterioration. Tighten if necessary.

EXPLAIN IN DETAIL ALL ITEMS MARKED "O"

Top bearing in steering needs replacing.

Right front spindle needs replacing. Retaining nut and spindle threads are stripped.

Front end needs rebushing.

Transmission rear oil seal leaks.

Pinion oil seal leaking badly.

Rear axle breather needs cleaning.

Rear spring bracket of left front spring is loose and wearing into frame.

Muffler is blown out at rear of muffler.

Truck needs lubrication.

Both door glasses are broken.

Both doors are sprung and close badly.

Neither door can be locked.

Fenders and running boards are badly rusted through and are dangerous.

Fire extinguisher half full.

No first aid kit in truck.

WHEN DO YOUR TRUCKS get a complete "clinical" checkup? This shuttle van wasn't maintained

gradually increasing speeds until it has covered 2,000 miles, when the regular inspection is made. However, the special driver doesn't relinquish the truck until it has covered 4,000 miles and has had its third inspection check.

This may seem a fantastically careful break-in procedure, yet the proof of its value is that the company has a number of trucks that are over the 200,000-mile mark and perform like new ones. When one of the engines needs overhauling the mechanics have something to work with because the motors haven't been crippled.

A General Motors survey team tells of inspecting a fleet of 19 trucks in which they found one that had gone 15,400 miles without an oil change and that had tires $^3/_4$ inch out of alignment, all because the company had no planned inspection and maintenance program. Two trucks, picked at random from the fleet, had decreased in value at least twice the rated depreciation in the Blue Book for that area. The report on another truck used for shuttle service for five years is shown on these pages.

Keep It Clean!

Enough has been said in the last half century about delivery equipment being spic and span at all times, both for maintenance of the finish and for good public relations. One plant, with half a dozen trucks, has each sponged off every time it comes to the plant. This means twice a day for the four city trucks, once a day for the

✓	38.	**CYLINDER HEAD** - Inspect for evidence of coolant loss.
✓	39.	**RADIATOR** - Examine coolant level - add water if level is low or tag steering wheel if level is low and anti-freeze is used.
✓	40.	**WATER PUMP PULLEY** - Loosen belt and check pulley for looseness.
	41.	**AIR COMPRESSOR** - Tighten mounts - Adjust belts if necessary.
O	42.	**ENGINE SUPPORTS** - Inspect condition of insulators.
O	43.	**ENGINE** - Inspect for external oil leaks. Examine outside oil and fuel lines for chaffing and kinks.
O	44.	**FUEL FILTERS** - Clean all - Clean fuel pump screen and bowl. Replace gasket.
	45.	**FUEL PUMP** - Test and record pressure 4½ in and capacity 7 out
✓	46.	**STARTER AND GENERATOR** - Inspect commutator and brushes. Tighten connections.
X	47.	**SPARK PLUGS** - Remove, inspect, clean and gap. Replace with new gasket.
✓	48.	**ENGINE COMPRESSION** - Test and record on each cylinder: Dry 1 100 2 105 3 105 4 110 5 100 6 95 Oil added 1 105 2 110 3 115 4 125 5 115 6 100
O	49.	**DISTRIBUTOR** - Inspect points - set point gap.
O	50.	**DISTRIBUTOR** - Remove wires from cap - Inspect contacts for corrosion and cap for cracks. Inspect condition of wiring.
✓	51.	**IGNITION TIMING** - Set timing with light.
✓	52.	**CRANKCASE VENTILATOR VALVE** - Remove and clean.
	53.	**OVERHEAD OILING SYSTEM** - Inspect to see that proper oil flow is taking place.
	54.	**VALVES** - Adjust valve lash. Replace cover gasket.
✓	55.	**CYLINDER HEAD** - Tighten cylinder head bolts to torque specifications with torque wrench.
✓	56.	**MANIFOLDS** - Tighten nuts. Inspect for leaks.
✓	57.	**CARBURETOR** - Adjust idle with vacuum gauge.
✓	58.	**ENGINE OIL** - Change oil. Inspect engine oil for water and fuel dilution.
✓	59.	**ENGINE OIL FILTER** - Replace filter element.
O	60.	**CARBURETOR AIR CLEANER** - Clean.
✓	61.	**CRANKCASE BREATHER AIR CLEANER** - Clean.
	62.	**AIR COMPRESSOR AIR CLEANER** - Clean.
✓	63.	**HYDROVAC AIR CLEANER** - Clean.
✓	64.	**GOVERNOR AIR CLEANER** - Clean.

ROAD TEST

✓	65.	**STEERING WHEEL** - Inspect steering gear play at steering wheel.
✓	66.	**WINDSHIELD WIPERS** - Inspect operation of wipers and condition of blades.
✓	67.	**HORN** - Test operation.
✓	68.	**HYDROVAC** - Before moving vehicle make hydrovac operating test.
O	69.	**CLUTCH** - Test operation of clutch and report if free travel is ½" or less.
✓	70.	**POWER TRAIN** - Report on operation.
O	71.	**BRAKES** - Test operation of service brakes and parking brake.
O	72.	**OIL PRESSURE** - Record at idle ____ and maximum ____
✓	73.	**INSTRUMENTS AND ACCESSORIES** - Inspect operation.

(X) **ADJUSTMENT MADE**
(O) **NEEDS ATTENTION**
(✓) **OK**

No flares in truck.
No reflectors in truck.
Right front engine support bolt missing.
Front engine oil seal leaking.
Oil pan leaking.
Fuel filters need cleaning.
Distributor points need setting.
Carburetor air cleaner needs cleaning.
Clutch need adjusting.
Left front brake line leaks at frame.
Block freeze plugs leaking on left side of engine.
Oil gauge needs to be replaced, not right.
Brakes need adjusting.
Horse power 102 on Dynamometer test.
Left rear spring has four broken leaves.
Cylinder head gasket leaking.
Cab seats are badly worn and torn.
Headlight wires are worn and frayed at radiator.

properly for five years. As shown by the description above, it is now a liability rather than an asset

two country trucks. In addition, two of the trucks are steam-cleaned every night, so that all trucks get cleaned completely twice a week. Also, once a week, the tire sidewalls of each truck are coated with a quick-drying tire shellac.

In the more northern states, where salt or chemicals are used to clear the ice and snow from the roads, trucks should be flushed off daily, or even twice a day. If removed quickly, such chemicals have little effect on truck finishes. However, where road salt is heavily used, it can eat through some of the thinner metal parts on a truck in a year, unless rinsed off daily. Washing salt shouldn't be done in bright sunlight, since it causes "water-spotting" which is difficult to clear.

Undercoating a truck can really be worth the expense in the states experiencing regular heavy snowfalls, for this reason. An alternative to undercoating, in states not bothered with the salt problem, can be to steam-clean the under part of a truck and coat it with aluminum paint. One man reports dirt and oil don't adhere to this paint and rust never appears through it. Service men enjoy working on such a clean truck. However, we suspect that such a process might be risky in very hot climates, since a light or shiny finish also tends to contain heat. This might run up the temperature of bearings and the crankcase.

Chrome-plated parts of the truck should be cleaned regularly with a good chromium polish, which will remove rust from and cover scratches to prevent more rusting. *(Continued on page 70)*

FOR LIGHT TRUCKS

In accordance with Tire & Rim Ass'n Table LT-1A — Tires mounted on tapered bead seat rims — Underscoring indicates maximum recommended loads

TIRE SIZE	PLY RATING	TIRE LOADS AT VARIOUS INFLATION PRESSURES					
		30	35	40	45	50	55
6.00-16	6	900	985	1060	1140		
6.50-16	6	1020	1110	1200	1290		
7.00-15	6		1190	1290	1380		
7.00-15	8		1190	1290	1380	1470	1555
7.00-16	6		1240	1340	1440		
7.50-16	6		1425	1540	1650		
7.50-16	8		1425	1540	1650	1755	1860
8.25-16	10		1725	1865	2000	2120	2250
9.00-16	8		1940	2100	2250		
9.00-16	10		1940	2100	2250	2390	2510

INFLATION PRESSURES must be figured on actual average load carried, not on rated capacity of the trucks. Over-inflation will *not* compensate for an overload

(Continued from page 69)

It rarely pays for the average drycleaner to paint his own truck. He should, however, be prepared to do considerable and frequent touch-up painting. He should have adequate paint on hand of the right colors. He should have masking tape and a spray gun for retouching as much as a panel or a fender. Then when the slightest scratch or smear appears, he is ready to cover it. It should be covered within 24 hours of the time it happened, not only to prevent rusting but for the psychological effect on the driver. Somehow that first scratch always comes hard but once it does, the rest appear quickly.

The touch-up work can be made easier by keeping the paint design of the truck as simple as possible, with as little lettering as possible. Masking is easier if two-tone painting follows the physical structure of the body. For instance, the fenders and hood one color and the body another, or else the lower part a dark color up to the molding line and a light color above. A few firms, particularly in hot climates, find it expedient to paint the top in aluminum to reflect the sun's rays, as well as attract attention.

This is no place to cover the subject of color design of trucks. However, one basic principle is that one color should dominate if the truck is to look neat and attract attention. Thus a paint job can be kept looking smarter by paying particular attention to the areas in the secondary colors. The effect is somewhat like touching up the trim on a house when you don't want to paint the whole house.

Incidentally, the most effective color combinations appear to be those involving directly complementary colors. One trick to determine a complementary color is very simple, if you aren't colorblind. Pick a sample of the one color that you want most, stare at it for 30 seconds, then shift your gaze to a blank white space. For a short space you will appear to see the opposite color on the white, in the exact complementary shade.

Check Up and Tune Up

You can start an argument among almost any group of drycleaners about the merits of the 1,000-mile checkup. Some insist that the modern vehicle can go 2,000 or 2,500 miles between checkups without harm.

However, they are confusing World War I economy practices, applied to passenger cars operated at comparatively low speeds, with conservative practices applied to trucks operated at normal speeds under rougher conditions. Tough as the average truck may be, it still responds to babying by giving another 100,000 miles or so!

All checkups generally include greasing, an oil change, testing and adjusting brakes, clutch and fanbelt, checking hydraulic fluid, lights, horn, windshield wiper, battery and tires.

Two additional items can keep the truck in such perfect shape that a major overhaul will become the only other cause for putting the truck into the maintenance department or garage. One is a tune-up at each 1,000-mile check: cleaning sparkplugs, cleaning and adjusting distributor, checking the generator, cleaning the carburetor air filter, cleaning the fuel filter and sediment bowl, adjusting the carburetor, checking the wiring circuits, etc. One operator insists he saves $30 per year per truck in gas consumption alone by consistent tune-ups.

Fishburn's has another item, labeled the "Cry Sheet." It is a statement of all the things that need attention, turned in by the driver at the time of each 1,000-mile check. **When the truck is returned to the driver, the maintenance man goes over the Cry Sheet with him, point by point, to make sure everything is covered.** By stimulating the drivers' interest in the maintenance of their trucks, and by insisting that no complaint be disregarded, Fishburn's has been successful in keeping maintenance costs at a very reasonable level.

One additional measure is given credit for saving 20 to 30 percent on truck maintenance costs. Each morning a Fishburn mechanic checks the oil, radiator and tires, and warms up the motors before turning the trucks over to the drivers. Thus he keeps acquainted with the condition of each motor and can discuss it with the driver before he starts out, if necessary.

Mileage or number of travel hours aren't sure gauges of oil's cleanliness, nor is the appearance of oil on the dip-stick. Neither factor controls the presence of acids or moisture in the oil. Also, a clean dip-stick does not measure the gunk at the bottom of the crankcase, which settles when the truck is standing but is partially whipped up when the motor is running.

Changing oil every 1,000 miles is cheap insurance. So is flushing out the crankcase. So is frequent change of the oil filter or filter element. Moreover, oil is a cool-

Avoid "peephole" driving by coating windshield inside and out with the following solution: Heat and dissolve four oz. of potassium oxalate and two oz. of glycerin. Add one-eighth oz. of camphor. Remove from heat and add one oz. of turpentine. Apply the solution evenly over the windshield, then rub it down with a clean cloth.

ant as well as a lubricant, and dirty oil is much less effective in carrying off engine heat.

Oil, whether in cans or drums, should be stored in a warm spot, to save time pouring and to get out all the oil in the can or drum.

Investing in an inventory of the more important spare parts can save hours of valuable time. It will also ensure that replacements will be made immediately the need is noticed, instead of being put off until the parts can be obtained. This is particularly true of plants in communities far from a major parts distributor for the type of truck the cleaner is using.

Uniformity in make and model of the fleet of trucks permits keeping a small but adequate inventory of spare parts. Replacements can be made at leisure for restocking the inventory. This includes even keeping a spare motor on hand, together with clutch and pressure plates, clutch and pilot bearings, carburetor, fuel pump and generator. When engine failure occurs, a spare engine is installed and the truck is back in service in a few hours. The ailing motor is then overhauled when the mechanic can get to it conveniently.

For the man who hires his garage work done, but who lives in a small community, this practice of keeping a parts supply is still important. He can store them at the plant, or he can arrange with the garage to store them for him until the parts are needed.

One driver always seems to wear out tires two or three times faster than another, even though their routes may be similar in length and character. One remedy for this is training in proper driving habits, mentioned previously. The other is continual attention to the tires on the part of the maintenance department.

Removing each tire every thousand miles and putting it on a "spreader" to inspect the inside of the carcass shows breaks in the cord long before the damage appears on the outside. Thus over-inflation and under-inflation can be spotted quickly.

Over-inflation weakens the cord body by reducing the cushioning effect, causes impact breaks, rim breaks, tire cracks and tread separation. Under-inflation results in uneven tread surfaces, ply separation, tread separation and loosening of the cords. If a truck is continually underloaded, the air pressure should be used corresponding to the actual load, according to the chart on the opposite page.

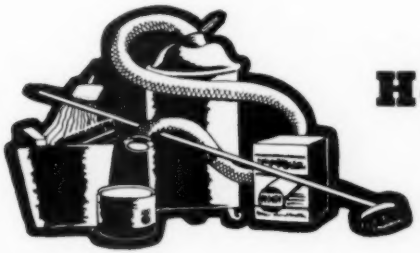
Mechanical faults in a truck often show up first in the irregularities of tire wear. This includes improper front end alignment, grabbing brakes, bent frame or axle, worn or tilted kingpins, wheel bearings and unbalanced wheels, to mention a few. For this reason the frequent tire inspection might seem extravagant in manpower costs but it provides, together with the tune-up and the Cry Sheet, a means of detecting basic defects before they become dangerously or expensively advanced.

Enough has been said about rotating tires from wheel to wheel to make it pointless to discuss it here.

The daily inspection and pressure check include looking for cuts and bruises, which should be treated immediately to prevent extension of the damage.

Recaps give good service if done by a reliable shop using quality materials. The recapping should be done when the last bit of tread disappears, without waiting to use up some of the solid rubber. That can be saved for wear when it is decided not to recap the tire further and finally wear the tire out.

If the cleaner has any choice, winter or fall is the best time to install new tires on a truck. Such tires will then have lost some of their tread by hot weather and will run a little cooler, giving somewhat higher mileage over-all. # #



Housekeeping

THERE'S NO SUCH THING as "half-clean"! Dirty spots in a clean area are more conspicuous than a solid sheet of grime. Also, partial cleaning is hardly worth doing because the dirty spots breed more dirt with the speed of bacteria.

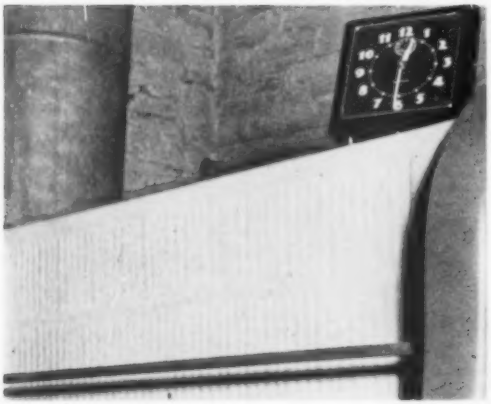
At a recent conference of industrial maintenance engineers the statement was made that "By concentrating on the corners and areas where scrap, obsolete equipment, tools, supplies, etc., invariably collect, it is surprising how easy and natural it becomes to keep the working and open areas in good shape."

At New York's Empire State Cleaners, Hy Mitkowsky stressed the point when a visitor expressed surprise at the cleaner's concern over a little dust in a corner. "The big things will take care of themselves," said Hy, "because everybody can see them. It's constantly keeping after the little things that makes for quality work, for good selling, for a clean plant!"

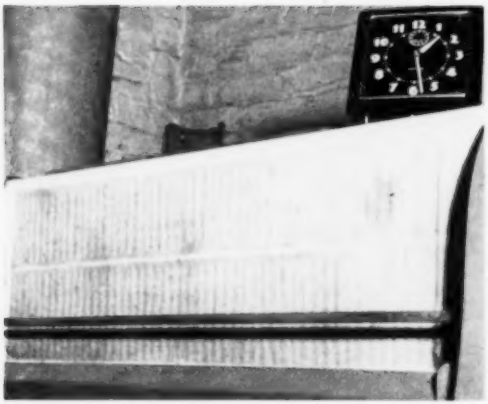
If a strenuous effort to clean the entire plant is made at regular intervals, the daily or twice-a-day sweepings and dustings could be done easily and quickly. Air currents from windows, fans and moving employees wouldn't be steadily drawing almost invisible clouds of dust and tiny tumbleweeds of lint out of corners into the working areas.

Lint is the fuse that has burned many a plant to the ground with what started as a small fire. Lint and dust are actually explosive. **Any cleaner who allows even a small amount of lint to lie on his pipes and overhead might just as well have a train of gunpowder there!**

An industrial-type vacuum cleaner serves best to pick up lint, particularly off the pipes, overhead and high shelves. Such a vacuum cleaner, the same type of machine that location rug cleaners use to pick up suds from a carpet, also picks dust and lint out of the corners, the tight spots around pipes and the bases of



TO SHOW HOW MUCH DIRT floats in air of average drycleaning plant, and specifically how much gets sucked into tumbler, a piece of white flannel was placed over air intake of an open-end tumbler



AS INDICATED BY ALARM CLOCK above tumbler, this second picture was taken not quite an hour after first one. Actually, contrast was much greater than pictures show

equipment, and particularly under foot pedals. This type of unit is portable, with a long cord allowing operation over a large area from one wall plug.

Several drycleaners have installed the type of vacuum cleaning system used in many modern hotels. This consists of a pipe running along the walls or down through the middle of the room. Outlets at 20-foot intervals on the pipe have trapdoor lids with gaskets permitting them to be held shut by the suction in the pipe. The cleanup man attaches a hose to an outlet, vacuums the area around it, then removes the hose and attaches it to the next outlet. The accumulated dust goes into a receiver in the basement or at the back of the plant.

Either type of vacuum cleaner is particularly handy around the coils or vanes of a unit heater, around ventilating fans and around electric motors. With the right attachments they can be used effectively to clean out tumbler exhausts and ventilating air ducts, also around heating coils of tumblers.

In any case where lint or dirt is scraped off a screen with a brush, it is advisable to run the vacuum cleaner attachment over the area first to pick up the fine dust that a brush will only disturb. This is particularly true where the screen filters air coming *into* the plant.

We are almost embarrassed to suggest that drycleaners should set up **a regular schedule for cleaning their own drapes,** curtains, rugs, store and office upholstery, windowshades, draw curtains on garment racks, awnings over garment racks, curtains across archways to the plant, etc., etc., etc. Or even the canvas trays under their spotting boards, ironing boards and skirt presses.

Dirt Can Be Screened

It is worth while making an effort to screen dirt out of a plant. Putting cheesecloth over the tumbler air intake for a couple of hours will give the cleaner an idea of how much dirt is airborne in his plant. It is hardly practical to attempt to screen dirt at the windows, outside of actually washing down the screens themselves. A filter in front of any fan or air intake, however, can be very effective in keeping down the dirt content of the air within the plant. The air coming into the plant under "forced draft" actually has a slightly higher dust content as a rule than air that drifts in the windows. Certainly the cubic content of dirt is much greater because the turnover under forced draft is greater.

If your plant does have filters over the air intakes, such filters must be cleaned regularly. This not only maintains the proper amount of air circulation but prevents dust from "creeping" through the filter into the plant. If it isn't practical to use modern commercial filters on the bigger intake fans, a double or triple thickness of cheesecloth will help. The latter should be changed and cleaned twice a week, or even daily in dusty or sooty communities.

Wetclean Plant, Too!

The drycleaner's horror of wetcleaning seems to extend to his plant and equipment, as well as to his customers' garments. Yet all equipment should be wiped down at least weekly with a damp cloth. Soiled spots should be cleaned up with water and a detergent. There should be no surfaces that can't be wiped off. If any tend to rust, they should be painted.

Dirt has an adhesive quality. It not only sticks to surfaces but it catches on to dust and lint, to build up the typical coating we see all around us. You can tell the cleanliness of a plant by an employee's reaction when he drops a garment. If he sends it back for a rerun without looking at it, you know the garment is sure to be branded with dirt. If he shakes it and maybe brushes a sleeve before hanging it on the line, you know the boss has the housekeeping under control.

Along the same line, **all containers of anything should be kept scrupulously clean**—on the inside to maintain the purity of the contents, on the outside to stop "smudging." This applies particularly to bottles, jugs, crocks, pans or trays of spotting or prespotting solution. Most such solutions, when dry, are surprisingly sticky and adhesive to dirt. It is amazing how many spotters will apply chemicals with an eyedropper from a bottle ringed to the top with fuzz. Every now and then they miss the bottle and pick up some fuzz on the tip of the dropper.

But generally the spotter picks up a shaker bottle that has dribbled a little oily-type paint remover, for instance, down the side. Dust collected on the sticky stuff transfers to his fingers. Then it moves over to the dress the next time he tugs it into place. Housekeeping is so poor in some plants that a garment actually might be better off if the spotter never worked on it!

IF YOU DON'T HAVE an industrial vacuum cleaner, give the janitor the tools he is going to need to get under all pedals and low pipes throughout the plant

Windows show lack of "wetcleaning" the most. Believe it or not, drycleaners have stated that certain windows, skylights particularly, remain unwashed because the glare is too great when they are clean! If a window or skylight isn't needed it should be painted over, or better, replaced with some insulating material to reduce the heat.

However, many days of the year are cloudy enough for the plant to need all the daylight it can get, particularly in the morning and late afternoon. Plants with clouded windows and skylights are forced to burn lights to a much greater extent than they would with clean glass. For the glare it is better to put up venetian blinds, pull down shades or, if diffusion of the light is enough, cover with a double or triple thickness of cheesecloth. Then be sure to wash the blinds, shades or cheesecloth regularly.

All lights should be washed with water and detergent four times a year at the very least, including the bulb, the reflector and the fixture. A reflector can get dirty enough in one year to decrease a light's illumination by 25 percent. Fluorescent lights have a lot of surface in proportion to their light, so dirt can make a big difference. Incandescent lights, even though with much smaller surface, always have a current of air flowing by because they heat the air around them, forcing it to rise. Therefore they are exposed to proportionately more dirt.

A freshly painted wall or ceiling may lose 5 percent of its reflecting power in a year due to aging of the paint. It can lose up to 20 percent of its reflecting power in a year by collecting grime. Washing down the walls at least twice a year can cut down considerably on your demand for artificial light.

Make It Easy

Preventive housekeeping is as important as preventive maintenance. The most obvious device is having sufficient trash cans at the spots where the trash accumulates. It should be made just as easy to put trash into a can as to drop it on the floor. Such cans or wastebaskets should be at every marker's station, or at least between each pair of markers. Each checker should have one, possibly with a lip on it that is practically under the point where marking tags are detached.

Each seamstress rates a wastebasket, each counter girl, each office girl. There should be a wastebasket handy to customers in the store. Each washroom has a wastebasket, and any lunch area not already supplied should have a trash receiver. Wherever drivers gather to check orders or route sheets or to cash up should also be a strategic spot.

All trash containers should be of metal. The practice of using cardboard hanger boxes, etc., for trash is a direct invitation to fire from a careless smoker. In addition, the lapped edges of such a box provide a gathering point for dust and lint.

If smoking is permitted in the plant, adequate ashtrays must be provided where they will be used.

There are many plantowners who believe that it is easier and cheaper to throw everything on the floor and sweep it up at one time. This is ignoring the abrasive action of pins, staples, etc., being ground into the flooring. It also overlooks the pulled muscles that occur when you hit a pin or a patch of papers or tags just right and your foot slips. Above all, it ignores the effect of appearances on employee and possibly customer morale.

Floor Preparation and Care

The purpose of floor maintenance is to provide a surface that is safe to walk on, easy to clean, and as long-lived as possible. To do so requires careful preparation of the floor in the first place. To provide a good smooth base a suitable "sealer" should be applied to floors made of wood, cork, concrete, magnesite, terrazzo or marble. Because all these materials have varying degrees of porosity—small holes that pick up and hold dirt—this preparation is necessary to fill the holes.

The surface must be perfectly clean before sealing. A new wood floor should be sanded. Dirt or old wax should be removed from any surface, with a neutral cleaner. A rotary scrubber does the best job. The floor must be *thoroughly rinsed*. Traces of soap or detergent can make the new wax both slippery and dull-appearing. The floor must also be thoroughly dry before applying the sealer. A freshly sanded floor shouldn't be scrubbed after sanding.

After the dry floor is dusted or vacuumed, the sealer is applied in a thin coat. If any puddles of sealer remain 15 minutes after application, they should be wiped up or there will be a bumpy spot in the floor. This coating is gone over with the steel-wool attach-

"I hid a couple ten's under the dirt."

STOREROOMS and broom closets, even when made of wire fencing, keep supplies off the floor

ment on the floor machine and the floor is dusted or vacuumed again. Then, on wood floors, a second coat of sealer is applied in the same manner, steel-wooled and dusted. The floor is then ready for either a solvent-type or a water-type finishing wax.

Such a floor surface sweeps easily, wears well, and should not be slippery. Similar surfaces can be obtained with one coat of sealer on concrete, magnesite, terrazzo or marble floors. Sealing is particularly effective in correcting "blooming" or dusting of concrete floors. However, new concrete shouldn't be sealed until at least six months after the floor was laid, to permit the concrete to completely "set." The same is true of magnesite and terrazzo. Cork in any form shouldn't be scrubbed, mopped or waxed for at least three days after being laid.

Linoleum must be undisturbed for 72 hours after laying, to permit the adhesive to set. Asphalt and rubber tile require at least two weeks to set before scrubbing. These surfaces must also be absolutely clean. However, since they are already smooth-surfaced, they do not need a sealer. One or two coats of wax will be sufficient, preferably of the water type that provides a completely nonskid finish. No solvents or solvent-type waxes should be used on asphalt or rubber surfaces. This includes sealers, turpentine and spotting agents, all of which will dissolve the surfaces.

The rule for stripping and completely rewaxing floors is after six layers have been applied from time to time, or six months after the first layer was put on, whichever comes first. Some savings can be obtained by rewaxing only those areas subjected to heavy traffic, whenever necessary to protect the flooring or the sealer. When the old wax is stripped off, however, the whole floor should be done.

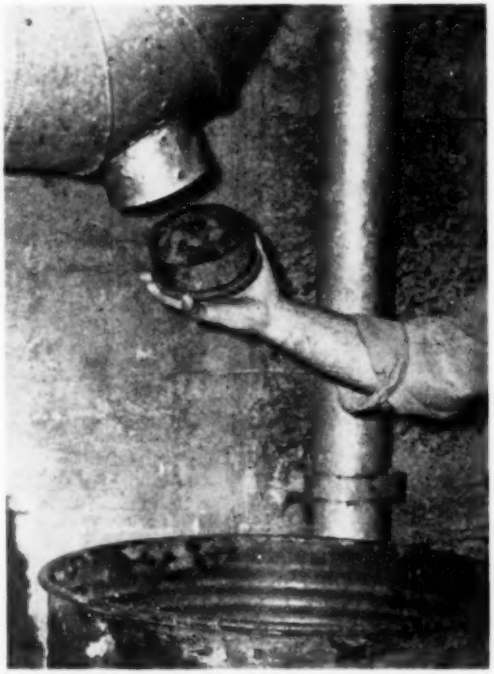
In any case, the wax should be applied in thin coats. Otherwise, only the surface dries, then when walked on the dried surface "rolls" underfoot. Floors should be kept dry as possible to preserve the surface. Mats or runners should be provided at entrances, steam and water leaks should be repaired, and spots where moisture condenses or water collects should be corrected.

Keep oil off the waxed floors, whatever the surface. The oil mixed with the wax makes a dangerously slippery surface. This includes some oils used on "dry" mops and cleaning compounds. Cleaners should be neutral in character. Don't use alkalis, caustic solutions or even very hot water, all of which disturb the wax, presenting either a rough surface or possibly a slippery one. If the wax on a floor hasn't been "upset" by any of these methods, it will not become slippery no matter how much it is polished. **Polishing alone does not make a floor slippery.**

A loose tile in any type of material should be immediately stuck down again, or replaced if necessary. Otherwise, the edges of the adjacent tiles will begin to crack and break, increasing the area to be repaired.

Some drycleaners seem to have tremendous respect for the paint a machinery manufacturer puts on his equipment. At least, they hate to cover it over with fresh paint, regardless of how old or how badly scarred the original paint may be! Actually, any scar or scratch should be wiped clean and painted the same day, before rust gets started. This not only protects the machine but makes it easier to wipe down at cleanup time. The same is true of scars on walls, fixtures or door jambs.

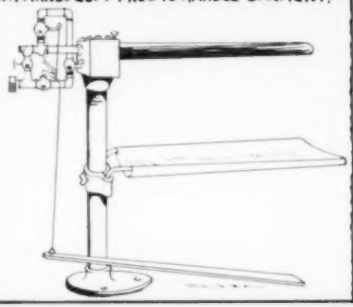
Whenever any part of the building or equipment is being cleaned the person doing it should have one eye out for the small repairs needed, whether it is a little paint, some putty, tape for a frayed light cord, varnish for a press table, asbestos for a pipe, a wobbly table leg, etc. We've said this before in another chapter but it needs emphasis. **An eye for the little things and prompt action keep costs down and appearances up!** # #



THERE SHOULD BE A CLEANOUT at every turn of ductwork of any kind, tumbler or ventilating. Daily is not too often to clean out these pockets

25 YEARS AGO.. FEB. 1927

NON-CONDENSING SLEEVE BOARD PROMISES TO REVOLUTIONIZE SLEEVE FINISHING! ENTIRELY CONTROLLED & OPERATED BY THE FOOT..... BOTH HANDS LEFT FREE TO HANDLE GARMENT.



REPORT BY W. J. STODDARD AT 1927 N.A.D.C. CONVENTION ON 'ESTIMATED PROFIT AND LOSS' ANALYSIS FOR FIRST YEAR OPERATION OF PROPOSED INSTITUTE:

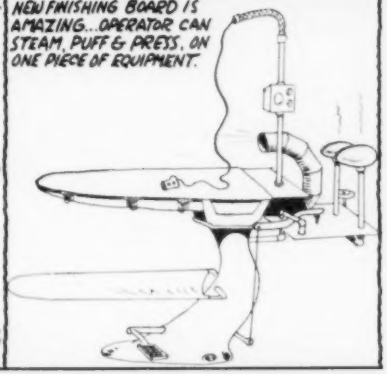
INSTITUTE PROPER:
ESTIMATED REVENUE $44,500
COST & EXPENSE 31,900
$12,600

MODEL PLANT:
ESTIMATED SALES $30,000
COST & EXPENSES 25,730
$4,270

PACKAGE PLANT:
ESTIMATED REVENUE $3000
COST & EXPENSES 8175
-$5,175

NET PROFIT..... $11,695

NEW FINISHING BOARD IS AMAZING...OPERATOR CAN STEAM, PUFF & PRESS, ON ONE PIECE OF EQUIPMENT.



10 YEARS AGO.. FEB. 1942

SHORTAGE OF WIRE HANGERS PROMPTS UPSTATE N.Y. CLEANER TO OFFER CHILDREN TOY SOLDIER FOR EVERY TEN HANGERS...WITHDRAWS OFFER AFTER BEING LITERALLY SWAMPED!!

DRY CLEANERS MAY SOON BE IN REAL TROUBLE DUE TO TIRE SHORTAGE IF THE WAR CONTINUES FOR LONG...'SMART MONEY' WAGERS WAR OVER BY 1943...(BEEN WRONG BEFORE!)

LOKET CLEANERS, MEMPHIS, HIRE WOMEN TO DRIVE 2 OF THEIR 3 TRUCKS....ONE WOMAN INCREASED ROUTE 25% IN ONE WEEK..."AVAILABLE MEN SATISFIED MAKE USUAL '10 OR '15 A WEEK..."

PAPPY ALWAYS MAINTAINED HE'D RETIRE ON HIS 60th BIRTHDAY AND TURN THE PLANT OVER TO THE LIGHT OF HIS LIFE....ELI K. WISHBUCKLE, JR.

AS WE LOOK IN TODAY, IT IS PAPPY'S 79th BIRTHDAY.

ELI K. WISHBUCKLE, JR., HAS JUST TAKEN TIME OFF FROM HIS DUTIES AS 'ASSISTANT TO THE PLANT ENGINEER, IN CHARGE OF BROKEN VALVES' (A POSITION HE HAS HELD FOR 32 YEARS) AND IS SUGGESTING THAT THE NEXT ORDER OF GARMENT BAGS BE A SHADE LIGHTER GREEN....

Lou Bellew

TODAY! "THE LITTLE SHOP AROUND THE CORNER"

DATA FOR DRYCLEANERS

The Cleaning Room

Synthetic Solvents

EACH of the three synthetic fluids used in the drycleaning industry—carbon tetrachloride (including carbon tetrachloride-base blended fluids), trichlorethylene and perchlorethylene—has its own particular application.

Likewise, there are three main classes of synthetic drycleaning machines:

Washer-Cabinet-Drier Systems: Garments washed and extracted in same basket, removed from basket and hung in ventilated cabinet to dry.

Washer-Drier Systems: All washing, extracting, drying or deodorizing done in same basket. Solvent left in garments after extraction is not recovered.

Washer-Recovery Systems: Garments washed, extracted and dried in one basket. Solvent left in garments after extraction is recovered by recirculating air which is alternately heated and cooled.

Physical and chemical properties of drycleaning solvents as they apply to design of drycleaning machine:

Washer: Rapid cleaning possible with chlorinated solvents because of their high solvent power for grease and rapid penetration rate.

Carbon tetrachloride and perchlorethylene—cleaning powers just about equal.

Trichlorethylene—most efficient fluid for soil removal.

Therefore, machine having large capacity per hour may be built around a relatively small basket by allowing a number of loads to be processed per hour.

Extractor: Difference in hold-up of solvent in garments after identical extraction conditions:

Carbon tetrachloride and perchlorethylene—no appreciable difference.

Trichlorethylene—slightly more recoverable by extraction.

Filter: Operation essentially same with any of the synthetic fluids; normal precoat and operating additions will work equally well with any of the three fluids under identical conditions.

A large item in solvent consumption is solvent left in discarded filter sludge, which accounts for approximately $\frac{1}{3}$ of solvent consumed in one washer-cabinet-drier machine.

Perchlorethylene and trichlorethylene—may be recovered from sludge by:

Recirculation of warm air to condenser to recover solvent-laden air.

Sludge may be backwashed to a still, then stripped of solvent by injecting live steam directly into sludge.

Carbon tetrachloride—tends to hydrolyze in presence of excess moisture, forming acidic corrosion products, so that it cannot be steam-distilled.

Example: In tests with machine which has relatively inefficient extractor, solvent hold-up for wool after 7-minute extraction is:

Carbon tetrachloride—20.2 percent
Perchlorethylene—18.6 percent
Trichlorethylene—15.1 percent

Still: Three physical properties of the solvents have to be taken into account as regards the still—specific heat, boiling point, latent heat of vaporization. All three add up to heat input required to distill the solvent. The three solvents have approximately the same specific heat of around .2, and approximately the same latent heat of vaporization. The main difference is in the boiling point: carbon tetrachloride, 169.7 degrees F.; trichlorethylene, 188.4 degrees F.; perchlorethylene, 250.2 degrees F.

Carbon tetrachloride and trichlorethylene—may be distilled at low steam pressures, usually not in excess of 10 pounds per square inch gauge pressure.

Perchlorethylene—will require approximately 50 pounds. In some machines this factor rules out perchlorethylene, since still coils or jackets will not stand the higher pressure, or area of coils is not large enough to have sufficient heat input for distillation of this fluid.

Solvent Recovery: Vapor pressure exerted by the various fluids is greatest single factor affecting solvent cost. Vapor pressure determines how much fluid is lost in the drycleaning operation, also amount of solvent that may be recovered from garments after extraction.

Evaporation rate (taking ether as having a rating of 100):

Carbon tetrachloride—33
Trichlorethylene—28
Perchlorethylene—9

Carbon tetrachloride has evaporation rate about 3.5 times that of perchlorethylene. This factor accounts for high evaporation losses in systems using carbon tetrachloride.

Vapor pressure characteristics come into full play in recovery systems of washer-recovery type machines:

Example: A widely used washer-recovery machine has basket volume of 14 cu. ft. That, together with duct work, heater, and condenser easily makes 25 cu. ft. total volume. After extraction there remain in garments approximately 44 pounds of solvent per 100 pounds of garments. Assuming temperature drop of 30 degrees F. in condenser, solvent content of solvent-laden air would be reduced as follows:

	Operating Temperature	
	150° F.	120° F.
Carbon tetrachloride	.245 lb./cu. ft.	.14 lb./cu. ft.
Perchlorethylene	.06 lb./cu. ft.	.03 lb./cu. ft.

The unrecovered solvent is proportional to volume of air space and solvent content per cu. ft. at that particular temperature:

	Carbon tetrachloride	Perchlor-ethylene
Total volume of air space	25 cu. ft.	25 cu. ft.
Solvent content at 120° F.	.14 lb. cu. ft.	.03 lb./cu. ft.
Total uncondensed solvent in air	3.50 lbs.	.75 lbs.

If the solvent hold-up is 44 lbs./100 lbs. of garments, hold-up per 42 lb. load would be 18.5 pounds of solvent. From this figure and that for solvent content of air in machine we can calculate the solvent recoverable:

	Carbon tetrachloride	Perchlor-ethylene
Solvent hold-up after extraction of garments per load	18.5 lbs.	18.50 lbs.
Solvent content of air	3.5 lbs.	.75 lbs.
Recovered solvent	15.0 lbs.	17.75 lbs.
Recovery	81%	96%

NOTE: These are theoretical values only, as in actual practice the systems are not absolutely airtight. When vapor is lost it is more serious with carbon tetrachloride than with perchlorethylene, as the vapors are richer in solvent. Actual practice gives approximately 75 percent recovery for carbon tetrachloride and 90 percent for perchlorethylene.

Solvent Costs: Only true basis for comparison is solvent cost per pound of garments cleaned. It matters little what is paid for a drum of solvent, but it does matter how much cleaning a drum of solvent will do.

In one popular washer-cabinet-drier machine, losses were determined, by extensive laboratory and field tests, to be distributed as follows:

	Perchlor-ethylene	Carbon tetrachloride
Filter loss	6.0 lbs.	6.0 lbs.
Hold-up	13.1 lbs.	14.0 lbs.
Still residues	.4 lb.	.33 lb.
Evaporated loss	3.5 lbs.	9.87 lbs.
Total loss, solvent per 100 lbs. garments	23.0 lbs.	30.20 lbs.

Taking a base price of 13 cents per pound for perchlorethylene and 10.5 cents per pound for carbon tetrachloride, this represents a cleaning cost of 2.99 cents per pound of garments for perchlorethylene as against 3.17 cents for carbon tetrachloride.

How To Reduce Cleaning Costs:

Hold-up of solvent in garments after extraction: Varies with efficiency of extractor, which is a function of the diameter of the extractor basket and speed of extractor. This factor is built into machine and cannot be varied.

Length of extraction time: Can be varied.

Example: Variation in amount of solvent left in clothes after extraction. Garments extracted were wool, extraction time seven minutes in all cases:

Machine No.	Diameter of basket	Extraction speed	Solvent hold-up %
1.	27"	900	12.5
2.	30"	860	12.5
3.	34"	810	13.5
4.	30"	750	14.5
5.	32"	640	16.0
6.	24"	550	22.0

Recovery in separate recovery-drier of solvent left in garments after extraction will reclaim 90 percent of hold-up solvent. Cleaning cost may be reduced to about $1\frac{1}{2}$ cents a pound with perchlorethylene, which is the most completely recoverable solvent.

Filter loss: Much of this loss may be recovered by back-washing the sludge and steam-stripping when perchlorethylene is used. Still residues may be stripped for a further saving.

Chief advantage of trichlorethylene: Lends itself to construction of lower-priced machine from low-cost materials of construction.

Trichlorethylene should only be used in machines especially designed for it as this solvent has a tendency to bleed fugitive cellulose acetate dyes when the temperature of the solvent exceeds 80 degrees F.

Source: E. I. du Pont de Nemours & Company, Electrochemicals Department

Physical Properties of Synthetic Solvents

	Carbon Tetrachloride	Trichlorethylene	Perchlorethylene
Chemical formula	CCl_4	C_2HCl_3	C_2Cl_4
Boiling point, °F.	169.7	188.4	250.2
Latent heat of vaporization at boiling point, B.t.u./lb.	84.2	103.0	90.0
Specific heat, liquid	0.205	0.225	0.205
Viscosity, liquid (68° F.) cp.	0.969	0.58	0.88
Surface tension (in air) dynes/cm.	25.4 (in nitrogen) at 77° F.	approx. 29 at 86° F.	32.32 at 68° F.
Specific gravity (20°/4° C.)	1.594	1.464	1.623
Pounds per gallon (68° F.)	13.30	12.30 (59° F.)	13.55
Vapor pressure, mm. Hg. (68° F.)	91	58.5	14.2
Evaporation rate (ether-100)	33	28	9
Flammability, Underwriters' Laboratories rating	0	3	0

Petroleum Solvents

STANDARDS for petroleum distillates used in drycleaning cover physical and chemical properties, methods of testing, certification of quality.

Standards for Stoddard Solvent:

(Commercial Standard CS 3-40)

1. *Material:* Stoddard solvent shall be a petroleum distillate.
2. *Appearance:* It shall be clear and free from suspended matter and undissolved water.
3. *Color:* It shall be water-white or not darker than 21 by Saybolt chronometer.
4. *Odor:* Solvent shall be free from rancid and objectionable odors.
5. *Corrosive Properties:* Copper shall show not more than extremely slight discoloration when submerged in solvent for three hours at 122 degrees.
6. *Doctor Test:* Solvent should react negatively.
7. *Sulphuric Acid Absorption Test:* Not more than 5 percent of the solvent should be absorbed by CP sulphuric acid (93.2 percent).
8. *Flash Point:* Shall not be lower than 100 degrees.
9. *Distillation Range:* When a sample is distilled according to specifications, not less than 50 percent should be recovered when the thermometer reads 350 degrees F. and not less than 90 percent when the thermometer reads 375 degrees F., and the end point shall not be higher than 410 degrees F.
10. *Residue:* When a sample is distilled the residue shall not be more than 1.5 percent.
11. *Acidity:* Residue from distillation shall not show an acid reaction.

A petroleum solvent meeting the above specifications is classified by Underwriters' Laboratories, Inc., in a class with kerosene in respect to fire hazard.

Standards for 140 F Solvent:

The 140 F solvent has been developed in an effort to produce a workable solvent that would have a flash point higher than that set for Stoddard solvent and would show a high degree of safety in regard to fire hazard.

The main specification required by the Underwriters' Laboratories for 140 F solvent is that the flash point be a minimum of 138.2 degrees F. According to the Underwriters' listings this type of solvent is placed in a class between paraffin oil and kerosene.

The Stoddard solvent specifications are concerned only with the solvent and do not require any designated type of equipment.

In the use of 140 F solvent, specifications have also been set up in respect to the type of equipment in which it should be used for maximum safety. In some cases the equipment approved has been tumblers and drying cabinets. Some complete drying units have been approved for the use of 140 F solvent.

Approved drycleaning systems together with particular listed drying cabinets or tumblers are suitable only for use with listed cleaning liquids classified with respect to fire hazard and complying with the following specification:

1. *Flash Point* (closed cup): Not lower than 138.2 degrees F.
2. *Initial Boiling Point:* Not lower than 357.8 degrees F.
3. *Ignition Temperature:* Not lower than 453.3 degrees F.
4. *Lower Limit of Explosion Range:* Not less than .8 percent by volume in air at initial temperature of 302 degrees F.
5. *Spontaneous Heating:* The cleaning material shall not heat spontaneously.

The color, odor, corrosion and doctor tests are the same as for Stoddard solvent.

Along with the use of approved systems, the installation should be set up in accordance with the standards of the National Board of Fire Underwriters for safeguarding drycleaning and dyeing plants. Authorized inspectors should be consulted before installation.

The use of either of these solvents is regulated by the state fire marshal's office and the regulations vary considerably from one state to another.

Source—Anderson-Prichard Oil Corporation

Solvent Filtration

REMOVAL of insoluble impurities from drycleaning solvent in the filter is nothing more than a simple "screening" action. If all the dirt coming from the garments were in large, hard particles, the regular filter screens and bags would do the job without the need of filter powder. But dirt, sand, lint and slimy and gummy substances make the picture totally different.

The screens and bags in your filter press are extremely fine, around 200 mesh, which means there are approximately 40,000 holes to a square inch. If you use no filter powder, these holes are plugged in no time by the slimy and gummy substances. Then your filter pressure goes sky-high and you get no more than a trickle of solvent through the filter.

When you add a good filter powder (diatomaceous silica) to the solvent, the extremely fine diatom particles mix in the washer with the impurities and are carried to the filter press. These particles of powder collect on the filter screens and bags and break up the gummy coating of slimes and residues. They form pores or holes so fine they can only be seen under a microscope, but through which the clean solvent can flow freely.

When the manufacturer made your filter to put out, for example, 3,000 gallons per hour, he did not guess at the amount of filtering area. It was figured out by engineers as approximately 33 square feet for each 1,000 gallons of filter capacity. Therefore, your 3,000-gallon filter would have about 100 square feet of screen area.

Suppose, for various reasons, your screens and bags have become so clogged with insoluble residues and slimy substances (through which the solvent will not pass) that only 50 percent of your filtering area is open to flow. In effect, you now have a 1,500-gallon filter instead of a 3,000-gallon filter, yet your pump is still trying to force through its full capacity of 3,000 gallons, thus developing excess pressure.

To know whether your screens in your vertical screen filter are clogged or not here is the procedure:

When you have completed a day's run, or when you consider the pressure excessive, shut off your pump and open the drain valve on your filter, allowing the solvent to drain off to a point just below the filter cover. Remove the cover and swing it aside so that you can see down between the filter screens. Now drain the solvent from the filter, slowly enough so that you do not disturb the filter cake. When the solvent level is below the tops of the screens, take a flashlight and inspect the condition of the cake on each filter screen.

You will note that some areas have no filter powder on them; some of the areas will be coated anywhere from one-half to one inch thick, and the rest of the screens will be splotched here and there with only a thin cake. Where there is no filter cake, there has been no solvent passing through; all the solvent went through those areas on which the powder is deposited in a reasonably thick cake. In the case of a horizontal type filter, where the filter powder lies on a flat plane, this "spotty" cake is not found, due to the fact that its construction causes even distribution of the filter powder.

If the screens had been properly cleaned *and kept clean by proper precoating*, the filter cake would be uniformly distributed and of even thickness and color texture.

Cleaning Filter Screens

The proper way to clean your filter screens is to use one or two pounds of caustic soda to each five gallons of water in a tank or tub large enough to immerse the screens. Bring this tank of solution to a boil and then immerse the screens for at least 30 minutes. For bad cases of clogging, some plants soak the screens in the cold solution overnight and bring to a boil the next morning.

Next, rinse each screen thoroughly in another tub of boiling water, then steam thoroughly from top to bottom with wet steam. The trick to the above operation is to take the screens out of the boiling hot caustic solution one at a time, to the boiling hot rinse water, then to the steam hose. Above all, do not permit the screen to dry from the time it is taken from the caustic solution until it has been thoroughly steamed, working from top to bottom. If you do, the emulsified slimes and greases will precipitate and harden and be almost impossible to remove.

Wipe the screen very carefully. Be sure in wiping and blowing with steam that you do not break the soldering on edges; this will cause screens to develop leaks.

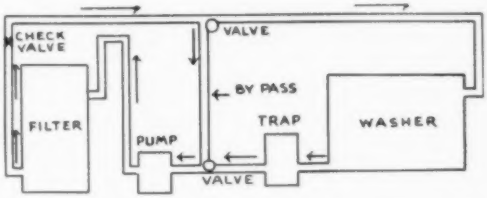
Now how can you keep your screens from getting gummed up again? The answer is with a properly applied precoat.

Precoat and Operation

First, fill the washer to the proper level and the filter press full of *clean* solvent. In filling the filter, keep the air valve open until solvent starts to run out, signifying that it is full. Now, close the air valve and add to the *clean* solvent in the washer one pound of filter powder *for each 10 square feet of screen area*. Start the washer and mix the powder thoroughly with the solvent. Then you can start the pump. Allow the solvent to circulate through the filter and washer until it shows clear in both sight glasses.

You are then ready to start your daily operation.

The most important thing to remember during the day's cleaning is that filter powder should be used on *every* washer load. The next most important point is to



Use of bypass maintains filter cake by continuing pressure with the pump while the washer is idle or on soap run. Also, extension of filter inlet and outlet above solvent level in filter maintains solvent level above filter cake. Check valve prevents solvent on outlet side from dropping back and pushing the cake off from inside the screens

use the right amount of filter powder—not too much, not too little. If one load is run without filter powder, the surface of your filter cake will start to slime over and become partially plugged, with more than normal pressure rise. This condition becomes worse for each succeeding load run without filter powder.

In a test run by a solvent manufacturer, it was found that using only ¼ pound of filter powder on *every* load cleaned more garments per pound of pressure rise, yet used 27 percent less filter powder per 1,000 pounds of garments cleaned than when three times this amount (¾ pound) was added in *every other* load.

Another extremely important point is that, on the vertical type filter, there is nothing to hold the precoat or cake on the screens. There should be a bypass valve to allow the solvent to keep circulating and hold pressure against the cake when no washers are running on the filter. If the pump is stopped when you are not filtering there is no pressure, and parts of the precoat and filter cake will fall off and leave the screen bare. When you start to filter again, these bare spots quickly plug up and the pressure rises faster than normal.

The same result occurs when the filter is started the first thing in the morning—after the pump has been off all night—without applying a precoat. If only one load is run through a precoat before shutting down for the

Minimum Filter Powder Usage

Stoddard and Large Synthetic Solvent Filters

For Precoating

Filter Capacity	Amount of Powder
1000 gals. per hr.	2 pounds
2000 gals. per hr.	4 pounds
3000 gals. per hr.	6 pounds
5000 gals. per hr.	8 pounds
8000 gals. per hr.	14 pounds

For Addition With Garments or to Powder Trap

No soap used—add 1 lb. powder to 100 lbs. of fabrics.
Soap used—To break run*—1 lb. powder per 100 lbs. of fabrics.
To filter rinse—1 lb. powder per 100 lbs. of fabrics.
*If no break run is carried out, double quantity of filter powder is used for filter rinse.

Small Synthetic Solvent Filters

Use 1 ounce for each square foot of filtering cloth or screen.

Use ½ pound for each 50 lbs. garments cleaned. Example: If 50 lbs. garments make four loads, add 2 ounces with each load. A less effective method is to add ½ lb. every four loads. Add powder with garments when possible—otherwise at trap.

Source—Johns-Manville Sales Corporation

night, a new precoat must be put on before starting to filter the next morning. Again, this does not apply to horizontal filters.

Three cardinal rules to remember in securing more and better cleaning with economy of filter powder are:

1. Start with and keep screens thoroughly clean with all mesh openings clear of solvent flow.
2. Determine the proper amount of filter powder to use per load of garments, according to the size of the load and the condition of the garments (one to two pounds for every 100 pounds of garments). Use the correct amount in *every* washer load.
3. Keep pressure against the filter cake at all times when operating a vertical type filter, either circulating through the washers or a by-pass valve. Always precoat again after the pump has been stopped, even for a short time.

Source: Dendix Division, Great Lakes Carbon Corporation

Use and Characteristics of "Sweeteners"

THERE are certain adsorptive filter powders which have characteristics that must not be confused with those of standard filter powders. The adsorptive filter powders have been treated with magnesium silicate or similar compounds to give them an ability to strain out soluble impurities that otherwise are able to pass through the filter cake. Some of these adsorptive filter powders have been effective in prolonging the interval between distillation periods.

Since the rate at which the magnesium silicate is used up depends not only on the type and amount of soil in the garments but also on the amount of fatty acid released from the soap used, it is difficult to prescribe exact formulas. This is particularly so since these powders appear to vary widely in character and performance.

The rule of thumb for one such powder is a precoat of 3 pounds per 1,000-gallons-per-hour filter capacity, plus 1½ pounds to each 100-pound load of lightly soiled garments. Care should be taken to add the adsorptive filter powder through the trap or at the outlet of the washer, as it has a tendency to cling to fabrics.

Solvent Tests

Test for Water in Solvent:

Make sure test tube is clean and dry, then half fill with solvent to be tested. Add pinch of anhydrous copper sulfate. Shake test tube well, then allow to settle for a few minutes. Water is present in solvent if sediment has bluish tinge.

Test for Soluble Soap in Solvent:

The same test will indicate presence of soluble soap in sufficient quantity to cause building up of suds in washer, formation of jell in still or scum on filter. Soluble soap present in solvent when shaking it with copper sulfate produces flocculent precipitate (a spongy, flaky bottom layer).

Test for Free Fatty Acid:

For accurate results, flask and 55 cc. graduate used for this test must be perfectly dry as well as clean. Either rinse with alcohol or acetone, requiring no drying, or, if washed with water, dry with cloth.

Pour 50 cc. of solvent to be tested into Erlenmeyer flask. Add 3 or 4 drops of phenolphthalein solution. Shake well. Next, using 100 cc. pipette, add 5 cc. of 0.0139 normal alcoholic potassium hydroxide (using synthetic methanol). While adding this solution, shake flask with swirling motion.

If pink color appears while the first 5 cc. is being added, amount of fatty acid in solvent is negligible. Each 5 cc. of testing solution that must be added to obtain pink reaction to phenolphthalein represents acid number of 0.1. If addition of second 5 cc. produces pink color, solvent is satisfactory to use. However, if it is necessary to add a third 5 cc. before obtaining pink reaction, the solvent should be treated before further use. Up to this point, the use of one of the adsorbents will usually keep it in usable condition.

If more than 15 cc. of testing solution, indicating an acid number of 0.3, is required to produce pink color, solvent must be clarified. The acid number 0.3 has been established as point at which solvent should be clarified because odor has been traced to solvent with a slightly higher acid number.

The drycleaner should make this test every day. The potassium hydroxide should be fresh.

Test for Wetcleaning Department

Test for Water Hardness:

To perform this test, standard soap solution can be obtained from water-softening supply house.

Add 3 drops of solution to 40 cc. of the water to be tested. Shake well. If water is soft, lasting suds will be formed. (About 5 minutes is considered "lasting.") If not, add another 5 drops of soap solution; shake again. If lasting suds now form, approximately 1-grain hardness is indicated. An additional grain of hardness is indicated by every additional 5 drops needed to form lasting suds. When 38 drops are needed to form lasting suds, hardness of approximately 7 grains is indicated.

Note: If both magnesium and calcium hardness are present in water, calcium is precipitated first and suds may be formed; however, the magnesium will then begin to act on the soap.

Recommended Drycleaning Washer Speeds

Drycleaning washers should travel between 160 and 180 linear feet per minute depending upon rib height and type of clothing being cleaned. Use the slower speeds for silks washed in high-ribbed machines. Most manufacturers recommend the following revolutions per minute as speeds for drycleaning washers of various diameters.

Diameter	r. p. m.
30"	20-30
36"	17-19
42"	15-16

Extractor Speeds

The revolutions per minute given in the table below are those recommended by most manufacturers for extractors of various sizes.

Diameter	r. p. m.
20"	1360
26"	1260
28"	1150
30"	1110
40"	900
48"	725
60"	610

Pumps for Filter Circulation

Following chart shows pump size recommended for each size of filter and speed at which each should operate to produce intended flow rate

Filter Gallons Per Hour	Size of Suction and Discharge Pipes	r. p. m. Pump Pulley	Diameter Pump Pulley	Gallons Per Revolution
400	1"	450	4¾"	0.015
600	1"	650	4¾"	0.015
1000	1¼"	375	7"	0.044
1200	1½"	230	10"	0.087
2000	2"	265	10"	0.125
3200	2"	235	12"	0.235
5000	2"	350	12"	0.23
8000	3"	250	24"	0.53

Source—Viking Pump Co.

Capacities of Tanks

TO calculate the number of gallons in the cylinder of a clarifying tank use the following data:

$$\pi \times \text{radius}^2 \times \text{height} = \text{cubic inches in cylinder}$$
$$231 \text{ cubic inches} = 1 \text{ gallon}$$
$$\text{cubic inches} \div 231 = \text{gallons in cylinder}$$

Given a tank cylinder with a radius of 24 inches and a height of 60 inches:

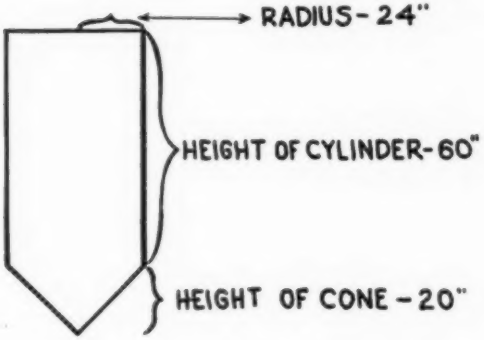
$$\frac{3.1416 \times 24 \times 24 \times 60}{231} = 469.9 \text{ gallons}$$

To calculate the number of gallons in the cone of a tank use the following formula:

$$\frac{1/3\pi \times \text{radius}^2 \times \text{height}}{231} = \text{gallons in the cone}$$

To find the capacity of a tank cone with a radius of 24 inches and a height of 20 inches:

$$\frac{3.1416 \times 24 \times 24 \times 20}{3 \times 231} = 52.2 \text{ gallons}$$



Capacities of Drycleaning Washers

It is impossible to quote precise washer loads to fit all types of equipment and diversified local conditions. The following capacities are average figures based on the recommendations of various washer manufacturers, detergent producers and drycleaning supply houses

Size	Wood	Metal
30 x 30"	30 lbs.	—
30 x 40"	40	50 lbs.
30 x 48"	50	63
36 x 48"	67	85
36 x 54"	78	95
36 x 64"	96	112
36 x 72"	103	117
42 x 54"	107	124
42 x 64"	128	154
42 x 72"	139	158
42 x 84"	167	198
42 x 96"	191	226
42 x 120"	226	250

Kilowatt Hours To Run Extractors

Table gives kilowatt hours required to run extractors of various sizes a given time in minutes. Example: A 48-inch extractor draws 1.45 kilowatt hours for a 20-minute extraction period; at 2 cents per kilowatt hour, power cost is 2.9 cents for the load

Time in Minutes	Extractor Diameters 20"	24"	26"	28"	30"	40"	48"
1	.042	.050	.071	.083	.095	....	....
2	.048	.069	.082	.095	.108	....	....
3	.055	.079	.092	.107	.122	....	....
4	.062	.088	.103	.119	.135	.46	.65
5	.069	.097	.114	.131	.149	.50	.70
6	.075	.106	.125	.143	.162	.54	.75
7	.082	.116	.135	.155	.175	.58	.80
8	.089	.125	.146	.167	.189	.62	.85
9	.095	.134	.157	.179	.202	.66	.90
10	.102	.144	.167	.192	.216	.70	.95
11	.109	.153	.178	.204	.229	.74	1.00
12	.115	.162	.189	.216	.242	.78	1.05
13	.122	.171	.199	.228	.256	.82	1.10
14	.129	.181	.210	.240	.269	.86	1.15
15	.135	.190	.221	.252	.283	.90	1.20
16	.142	.199	.232	.264	.296	.94	1.25
17	.149	.209	.242	.276	.309	.98	1.30
18	.155	.218	.253	.289	.323	1.02	1.35
19	.162	.227	.264	.300	.336	1.06	1.40
20	.169	.237	.275	.312	.350	1.10	1.45

Source—AIL

Finishing Hints

Maximum Temperatures for Various Fabrics

Fabric	Temperature
Rayon	280 to 300 F.
Nylon	280 to 300 F.
Silk	320 to 340 F.
Wool	350 to 370 F.
Cotton	400 to 420 F.
Linen	450 to 500 F.

Steam-Line Size

Number of Presses	Size Steam Line
1-2	½ inch
3-4	¾ inch
5-6	1 inch
6-10	1¼ inches
10-14	1½ inches
14-25	2 inches

The Spotting Department

Common Spots

Argyrol: Apply water to flush color as the stain is dissolved, thus preventing it from spreading to wider areas. Cover the stain with iodide crystals, allowing the crystals to dissolve in the water already applied to the fabric. Let the iodide solution soak for a few seconds. Work with spatula and flush out. Dab the stain with hypo crystals (enclosed in a cheesecloth bag) which first have been immersed in a 10 percent ammonia solution. Flush out thoroughly with water.

Berry: Employ the steam gun when possible. To remove remaining stains (or if no steam gun is available) apply warm to hot glycerin. Work with spatula, spotting brush or both. Flush out with clear water and follow with one of the general formulas sold by all manufacturers. Stubborn traces of discoloration on white goods should be treated with hydrosulphite. On colored fabric use hydrosulphite in solution of water, but first test to see if the dyestuff will stand the strength of the solution made up. If the color is sensitive to hydrosulphite, spray with hydrogen peroxide. Flush thoroughly and feather out.

Blood: Since heat sets blood stains, it is important to treat them before they go through the drycleaning process. Brush dry blood stains to remove built-up portions. Immerse the garment in a solution of acetic acid, salt and water (one-half pound of common salt and four to six ounces of glacial acetic or formic acid to five gallons of water). This solution will dissolve the fibrin and albumin content of the blood and allow the stain to be rinsed out in clear water.

In extreme cases, after the soaking bath it may be necessary to brush out with a water and stock soap solution. In all cases flush out the garment in clear water and allow to dry in filtered warm air. For small blood stains, remove built-up section with spatula or brush. Apply clear water and tamp the stain thoroughly with spotting brush. Addition of a small amount of ammonia to the water will saponify the blood stain and hasten solvent action.

Last traces of blood on white garments can be removed with sodium perborate or a peroxide bleach applied locally. Digestion has long been employed to remove the last semblance of fibrin and albuminous content of bloodstains, but among good spotters today there is a growing tendency to use digestion as a first process.

Candy: A steam gun melts a candy stain and forces the liquid out through the fabric. Hold the gun at a considerable distance, using wet steam; gradually bring it closer, increasing the volume of steam and the pressure. In plants where a steam gun is not available the stain should first be soaked in lukewarm water. In stubborn cases or where large areas are affected a small amount of acetic acid may be added to the stain to hasten water penetration. After the spot is softened, work with spatula or break up the stain by tamping with the spotting brush. Flush or rinse out with clear water, feather out dry. Since candy stains are frequently found in pockets of dark cotton fabric, every precaution must be taken to prevent a transfer of color from the pocket to the garment.

Carbon: Either the wet or the dry process may be used. When using the former method, wet out with clear water and apply sulfated fatty alcohol soap or other wetcleaning soap in liquid form. Work with the spatula or spotting brush and flush out with clear water. Feather out and dry. Where hot liquid soap is available with steam pressure, the steam gun may be used to lubricate the stain. Using the dry method, saturate the area with dry solvent and use as a lubricant any good prespotting soap or benzine soap paste. Work with the spotting brush or spatula and then dryclean immediately in the usual manner.

Coca-Cola: Every effort should be made to recognize and treat these stains before the drycleaning process. Heat and alkali not only set the stain but tend to intensify it. In prespotting use glycerin heated to 120 degrees F. Work with the brush or spatula until much of the Coca-Cola coloring matter is dissolved in the lubricant. Flush out thoroughly with clear water. In extreme cases let the stain soak 30 minutes before flushing. In some new fabrics the sizing tends to hold this stain and digesters must be employed. On white cottons and linens chlorine bleach may be used to restore badly stained garments.

Cod Liver Oil: Heat, time and an affinity for oxygen tend to set a cod liver oil stain. If the stain has not been thoroughly set, it may be dissolved and flushed out with one of the strong volatile solvents. On stubborn stains treat with a penetrating dry solvent such as a volatile paint remover. Dryclean immediately. If traces remain, apply a mixture of nine parts oleic acid and one part pyridine.

Coffee: On stains from coffee with cream modern practice recommends beginning with a digestive process. Digesters should be applied freely and allowed as much as a half hour to work. They may be followed by lubrication using hot glycerin and the spatula or brush. One of the general formulas, which are sold under a variety of trade names, frequently will be of value in dissolving the stain and converting the dyestuff into a colorless soluble substance.

Many black-coffee stains may be removed successfully using a thick solution of one of the soapless soaps as a lubricant. Work the stain and follow with a touch of oxalic acid. Flush thoroughly, feather out and dry. With white cotton or linen fabrics a chlorine bleach will remove the last traces of color. In every case this stain should be treated in prespotting since heat and alkali tend to set it.

Cooking and Salad Oils: The standard method is to saturate the stain with dry solvent and apply a mixture of prespotting soap and a paint remover in equal parts. Work the stain with the spotting brush, flush out with dry solvent and dryclean in the usual manner. Another method is to apply a mixture of nine parts of oleic acid and one part of pyridine after the affected area has been saturated with dry solvent. This method is often effective in removing stubborn stains or stains which have been set by exposure to the drycleaning process.

The mixture must be thoroughly flushed out and the garment drycleaned at once.

Corrosion, Metallic: Flush with clear water and for lubrication apply a monopole oil base soap, one of the synthetic soaps or a liquid wetcleaning soap. Work with the spatula, flush with water, feather out and dry. If reddish or rust-colored stain remains, wet out and apply a few drops of commercial rust remover or dilute hydrofluoric acid. Flush thoroughly. Green corrosion stains on metallic fabrics or trimmings may leave a permanent mark for which there is no safe remedy.

Dyanshine: See "Shoe Polish."

Dyes: Insoluble pigment-type dye stains should be treated, if possible, in prespotting. Using the dry method, saturate the stained area thoroughly with Stoddard solvent; apply, as a lubricant and dissolving agent, any standard prespotting soap to which has been added one-third of its volume of alcohol. Flush out with dry solvent or dryclean in the usual manner immediately to prevent the dyestuffs or the prespotting soap from drying in the fabric.

To remove dye stains by wet spotting, first wet out the affected area with water and attempt to dissolve foreign dye stains with hot acidulated alcohol. Often alcohol diluted with an equal amount of water and heated to as much as 140 degrees F. will serve without the addition of glacial acetic. Sufficient time must be allowed for the acidulated alcohol or hot alcohol to dissolve the foreign dyestuff. Then work the stain with the spatula or tamp with a brush and flush.

Add a few drops of ammonia, work with the spatula or tamp with the brush until the stain appears to be dissolving. If results are unsatisfactory, apply a liquid soap solution heated to between 120 and 200 degrees F.

For removing bled or offset dyestuffs on white goods or prints, immerse the entire garment in a large tub of water. The loose color will be released into the water. Remove and place the garment in a hot soap and ammonia solution made with just enough water to cover the garment, sufficient soap to produce a good suds and three ounces of 28 degree ammonia to each five gallons of water. The bath should be heated gradually to nearly boiling point and the garment kept in motion at all times. When all foreign color is released, flush out soap quickly in clear water and rinse in dilute acetic acid or a bath containing some commercial color-setting agent.

In employing the wetcleaning methods the basic dyestuff on the fabric must be tested to see if it will withstand alcohol, acetic acid, ammonia and hydrosulphite. If the foreign dyestuff in the stain has a greater degree of fastness than the base color of the garment itself, the only possible solution to the problem is to strip the entire garment and redye it. In all cases the spotter must realize that hot alcohol never can be applied to cellulose acetate.

Food: When possible use the steam gun, but if none is available, saturate the stained area with water, tamp with the brush or work with the spatula and flush out. If the stain persists, immediately apply a digester. The few stains which do not yield to this treatment should then be worked with the lubrication and mechanical method. (See first paragraph under "Dyes.") Food stains and the efforts to remove them often leave sizing rings. These will be avoided if the digestive process is applied; in some cases digestives will remove sizing rings resulting from lubrication or mechanical process.

Glue, Rubber, or Rubber Cement: Saturate the stain thoroughly with benzol or drycleaning solvent and apply a few drops of carbon bisulphite, working the stain thoroughly with spatula or tamping with the brush. Flush out with dry solvent and repeat the process until all possible traces have been removed. Feather out with cheesecloth and dryclean in the usual manner.

Glue, Vegetable or Animal: These stains can usually be dissolved and flushed out by the skillful use of the steam spotting gun. As an alternate method, soak the fabric in water containing up to a 10 percent solution of formic or acetic acid. Work occasionally while the stain is soaking in the liquid, either with the hand or with the brush or spatula. In rare cases these stains may contain some starchy material, and digestive action will be necessary.

Grass Stains: Many of these stains may be removed with an application of one of the synthetic soaps, followed by the steam spotting gun. If the steam gun is not used, apply soap, work the stain and flush out with water. Use acetic ether with soap solution on all but cellulose acetate fabrics. On acetates employ amyl acetate. An alternative method is to saturate the stain with drycleaning solvent and apply prespotting soap liberally. Add a few drops of amyl acetate and work the stain thoroughly with the spatula or brush. Flush out with dry solvent and dryclean as usual.

Indelible Pencil: Test the ground color of the fabric to determine its fastness to acid and alcohol. If it is fast to both, employ the hot acidulated alcohol method. Add one part of glacial acetic acid to nine parts of alcohol and heat the mixture to a temperature of about 120 degrees F. The stained area should be dipped in a small container of this solution and the coloring matter thus loosened absorbed immediately with blotting paper or some other absorbent material.

Since hot acidulated alcohol may not be used on cellulose acetate, when dealing with these fabrics wet out the area with water and apply a few drops of a trade general formula and flush out. Follow with ordinary liquid wetcleaning soap. Work with the spotting brush or spatula and rinse out again in clear water. Stains of this type are more readily removed from cellulose acetate fabrics than from silk or wool.

Ink: See "Writing Ink."

Ink, Ball-Point: Most ball-point-ink stains are soluble on the dry side. First prespot with an oily type paint remover, then follow with a volatile type paint remover. This procedure, followed by recleaning, will remove the majority of such stains.

When these stains are not completely removed by the above method, use water followed by one of the wetting agents. Should no bleeding of the dye take place, follow with a wet prespotter. The latter, plus the lubrication of the neutral lubricant or wetting agent, is usually sufficient to remove the last traces of the stains.

Iodine: Flush out the area with water to remove excess coloring. Wrap a few crystals of sodium thiosulphate (hypo) in a cheesecloth and after immersing it in a dilute ammonia solution dab the stain with this ammoniated hypo. Continue dabbing until the last traces of the stain have disappeared, then flush out with clear water, feather out and dry. Application of alcohol to an old iodine stain will convert it to a soluble which will yield to usual removal processes.

Iron Rust: Wet out the area thoroughly with water and apply a drop or two of a commercial rust remover, with care in following the manufacturer's directions. In the main these rust removers are acid fluorine

salts (hydrofluoric acid) diluted to exactly the proper strength for safe use.

Lead Pencil Marks: See "Carbon."

Lipstick: In prespotting saturate the area with solvent and cover the stain with a drycleaning soap. Work with the spatula and brush to force the soap to pick up and lubricate the pigment out of the fabric. Flush out with solvent and dryclean immediately in the usual manner. If the stain comes to the spotter after drycleaning, saturate with water and apply one of the general formulas marketed under a variety of trade names. Often this will remove the stain without use of brush or spatula. Flush out with water, feather out and dry. As a third alternative the spotter may employ any of a number of trade compounds designed especially to remove this rather common stain.

Meat Juices: To remove (use steam gun if available) saturate the stain with water, apply a few drops of ammonia and tamp lightly with the spotting brush. Flush out thoroughly and if the stain still persists apply a digester.

Metallic Corrosion: See "Corrosion, Metallic."

Mildew: Since mildew is a fungus which grows on the textile fibers, in advanced stages the stain will tend to be permanent. To remove light mildew use the steam gun if possible or flush out the area thoroughly with water. Apply liquid wetcleaning soap and add a few drops of ammonia. Work thoroughly but carefully with spatula or brush. Where traces remain on white or light colored fabrics, spray the area with peroxide, rinse, feather out and dry. On white linen, cotton or rayons chlorine bleach may be employed to remove last traces of mildew.

Mud: A dry bristle brush will break up and remove most of the stain. Practically all of the remaining spot will be removed in the drycleaning; wetcleaning will be reduced to a minimum.

Mustard: Saturate the stained area with water and apply hot glycerin; work well into the stain with the spatula and flush out with clear water. Use a general formula and continue working the spot with brush or spatula. In some cases it will be impossible to remove the last trace of a light yellow stain due to the tannin content of mustard.

Oil, Cod Liver: See "Cod Liver Oil."

Oils, Cooking and Salad: See "Cooking and Salad Oils."

Paint: Although paint stains may be removed without great difficulty after drycleaning, there are advantages in treating this stain in prespotting. Saturate the stained area with solvent and apply a prespotting soap or other dry lubricant. Cover the stain liberally with standard paint or varnish remover. Work with spatula or brush, flush out and repeat the process as often as necessary. Large areas stained with hard dry paint should be saturated with the paint remover and allowed to soak from an hour to overnight.

Pencil, Indelible: See "Indelible Pencil."

Pencil Marks: See "Carbon."

Perfume: This stain must be completely removed in prespotting; if not, the heat of pressing will bring the color out as a yellowish stain almost impossible to remove. Wet out the area with clear water; work with the brush or spatula and flush out with clear water. Touch up the remaining traces with a few drops of a general formula or a 20 percent solution of acetic or formic acid. Work again with spotting brush or spatula and flush out as before. For the oxidizing oil base that may remain, use first, as a lubricant, a good prespotting soap followed by a dry paint-removing solvent. The steam gun is very effective on perfume stains.

Perspiration: Turn the garment inside out on the spotting board and apply the steam or water gun as vigorously as possible without damaging the fabric. In most instances this treatment will completely remove the stain, but in certain cases it may be necessary to apply a liquid wetcleaning soap or a few drops of ammonia.

If a plant is equipped with neither a steam nor a water gun, the spotter should apply a sponge to the affected area. Saturate the area, using a pumping action, alternately squeezing and releasing the sponge to force the water back and forth through the garment. Then flush out thoroughly and absorb excess moisture with a towel or chamois. In severe cases it may be necessary to wet out the area and use liquid wetcleaning soap or a few drops of ammonia. After loosening the accumulated residue in the underarm area, a spotter may hold the affected area under a water tap, letting the water flow through freely. Where colors have faded the garment usually can be restored to its original appearance with dye pads or dye pencils. This restoration, however, will hold only until the next drycleaning.

Road Oil, Tar, Asphalt: Whenever possible this stain should be treated before drycleaning. After saturating the area with solvent, apply a prespotting soap one inch or more in all directions over the edges of the spot. Add carbon bisulphide freely and work with the spatula and spotting brush. Dryclean before the prespotting soap can dry in the fabric.

Rubber Glue or Rubber Cement: See" Glue, Rubber."

Rust: See "Iron Rust."

Shoe Polish: To remove, using the prespotting method, saturate with a dry solvent and apply prespotting soap. Tamp with the spotting brush; then dryclean as usual. Employing a wetcleaning method, saturate the stain with clean water, add liquid wetcleaning soap and a few drops of ammonia. Tamp with a brush to release stain coloring matter and let the liquid lubricant take it up. Flush out with clear water, feather out and dry.

Silver Nitrate: Flush with clear water, add a drop of iodine or put a few iodine crystals on the spot, and leave this on the stain for 30 seconds to one minute. This converts the silver nitrate into an iodide salt, which is soluble in ammonia and sodium thiosulphate (hypo). After thoroughly flushing out the stain formed by the combination of iodine and silver nitrate, dab the affected area with a small amount of hypo crystals wrapped in cheesecloth which has been saturated in diluted ammonia. Flush, feather out and repeat the process if necessary.

Soot: Wet out the area and apply a liquid wetcleaning soap. Add a drop or two of ammonia over each small area affected and work with the spatula. Flush out thoroughly with water or steam and feather out. A steam gun will remove these stains almost instantaneously.

Syrup: Remove before drycleaning if possible. The steam gun is very effective on this stain; but if none is available, use the water method. Saturate the area

with water and tamp very lightly with the spotting brush. Flush frequently and do not permit other sections of the fabric to pick up the liquefied syrup. Where large areas are affected and conditions permit it, soak the stain in a clear water bath, work out the stain and dry thoroughly before drycleaning.

Tar: See "Road Oil."

Tea: Unless this stain is removed before drycleaning it will fall into the classification of "set" tannin stains. A steam gun will remove 50 percent of these stains even after drycleaning. If a wet method is necessary, flush out thoroughly with clear water and, color permitting, let the stain soak in glycerin heated to 120 degrees F. Work the stain with spatula or brush and rinse in clear water. Follow with a few drops of general formula, work the stain again and flush out. If traces remain, apply a few drops of dilute acetic or formic acid (20 percent solution is the maximum strength practical to use) and again work with spotting brush or spatula. Flush with clear water.

Vomit: If no steam gun is available, flush out thoroughly with water, break up solid portions of the stain with the spotting brush, reflushing as often as necessary. Then apply one of the enzymic digesters freely and allow 30 minutes to an hour for the enzymes to work. Digestion will convert the stain into a water-soluble substance and will remove the odor.

Writing Ink: Following directions, these stains may be removed by any commercial ink remover marketed by a reliable manufacturer. Using an alternate method, saturate the stained area with glycerin and work it well into the stain. Place a blotting paper under the stain; another blotter applied frequently to the top will absorb the loosened color. On fabrics with fugitive dyestuffs the blotter should be used only on top. Flush out the lubricant and absorbed color with clear water. Apply a general formula, work with spatula and blotting paper and follow with final rinse in clear water.

Source—Spotting Manual (Fligor & Trimble)*

*These commonly encountered stains and 34 other spots and stains are all covered, with definite methods of removal, in *The Spotting Manual*.

Spotting Tips

1. KEEP tight corks or covers on all spotting agents. Only solvents safe for use on all fabrics should be kept conveniently at hand.

2. Remember that fabrics are most sensitive when wet. Don't rub a wet fabric with a chamois skin, turkish towel or brush. Use a tamping action. Scratching a wet fabric with the fingernail may cause irreparable damage.

3. After use, spotting brushes should be hung up to dry or left face down so the water drains from the bristles. Soaking in water swells the fibers and splits the wood base.

4. Keep spotting brushes in shape. Uneven bristles cause inaccurate applications of solvents and may hurt the fabric.

5. Gouging with the point of the spatula will lead to damage claims. Use with an easy tamping action.

6. On cellulose acetate fabrics always make a colorfastness test on an unexposed portion of the garment to discover whether certain dangerous spotting agents, such as alcohol, may be employed.

7. Use a dropper to apply spotting agents. Frequently, a few drops will do the job; when small amounts are employed, removal of the agent is simplified.

8. Don't use hot soap solutions on fugitive or weak colors.

9. Before resorting to wetcleaning a garment consider the possibility of handbrushing with dry solvent and soap.

10. When applying a digester to an albuminous stain make certain all the soap, alkali or acid is thoroughly rinsed out.

11. Remove metal trimmings, hooks, eyes, metallic buttons, pins or zippers before bleaching. Use stone, wood or earthenware containers for the bleach bath. Crowding garments in the tub is one of the major causes of uneven bleaching.

12. In employing a steam gun keep the jet moving at all times. If the gun is held perpendicular to the fabric, a hole will result. In removing food stains, flick at the spot, returning to it again and again.

13. Remove all spotting agents from the fabric. If they are dry, like paint removers, flush them out with a dry solvent. If they are wet, like ammonia or dilute acetic acid, flush them out with water. If they are soaps, flush or rinse them out.

14. In drying garments circulation of air is more important than high temperatures.

15. Know when to quit. In cases where it is impossible to remove the stain without danger to the fabric, it is better to leave the spot than ruin the garment.

Source—Spotting Manual

Stains To Be Prespotted

STAINS which are set by the heat encountered in drycleaning and pressing should be recognized readily by markers and spotters. The following stains should always be removed in prespotting:

Blood: A stain red to brown in color, both absorbed and built-up, usually found in the front of garments.

Coca-Cola: Entirely absorbed, may be very faint before going through the drycleaning process. In some cases it will spread over wide areas of silk and woolen garments.

Cod Liver Oil: Yellow in color, absorbed, often long and narrow following the filler threads. When oxidized will have a slight rancid odor.

Coffee: Color will vary from light brown to dark brown depending on the amount of cream in the coffee; entirely absorbed. Stain will tend to spread in wide splotches with irregular edges.

Perfume: May be identified by odor and location on front of garments. In pronounced cases may leave a round or circular stain, light in center with the dissolved dyestuffs pushed out to the circumference in a dark, heavy ring.

Pigment Dyes: A common stain on the seat and shoulder of a garment, usually picked up from leather upholstery.

Road Oil, Tar, Asphalt: Black, built-up stain with a rough, uneven surface and irregular edges. If fresh, has a distinctive odor.

Syrup: Sticky when wet, often identifiable by odor.

Tea: Similar to coffee, but more tenacious.

Burning Tests for Fibers

Synthetic Fibers

Aralac: Sizzles
Ash—black bead, readily pulverized
Odor—burning hair

Fiberglas: Does not burn, melts rapidly in flame
Ash—hard bead glows in flame

Nylon: Does not burn, melts in flame
Ash—light amber color bead, hard to break
Odor—sealing wax

Orlon: Melts and burns
Ash—hard black bead, sticky while warm

Rayon, acetate: Melts before burning
Ash—hard black ball
Odor—pungent, burning rubber

Rayon, viscose: (regenerated cellulose) Burns very rapidly, bright yellow flame
Ash—very little, gray, floats off
Odor—burning wood or paper

Vinyon: Melts before burning
Ash—brittle bead
Odor—sharp, disagreeable

Vinyon N: Does not burn but shrinks, hardens and becomes brittle

Natural Fibers

Cotton: Burns quickly, yellow flame, smolders
Ash—gray, fluffy, floats off
Odor—burning wood or paper

Linen: Burns rapidly but less rapidly than cotton, smolders longer
Ash—gray, very light and fluffy
Odor—burning wood or paper

Silk: Small flame, sizzles, burns more rapidly than wool, does not smolder
Ash—shiny black beads, readily pulverized
Odor—burning feathers

Silk, weighted: Burns slowly in flame, not after flame is removed
Ash—skeleton of weighting glows
Odor—burning feathers

Wool: Burns slowly, sputters
Ash—black, gritty, pulverizes easily
Odor—burning hair

The Laundry Department

Laundry Extractor Speeds and Centrifugal Force

Extractor revolutions per minute and pounds of centrifugal force decrease with increasing capacities. Heavier loads require longer extraction periods; periods required vary with atmospheric conditions and class of work handled. Wet wash should run about 10 to 12 minutes in 30-inch extractor, 15 minutes in 48-inch extractor

Type	Size basket diameter	Basket Speed Regular r.p.m.	Basket Speed High r.p.m.	Centrifugal Force lbs. exerted on each lb. of water Regular	Centrifugal Force lbs. exerted on each lb. of water High
Open top	40"	850	....	410#	....
	48"	750	....	384	....
	60"	550	....	258	....
	72"	450	....	207	....
Solid curb	20"	1500	2000	640	1132#
	24"	1300	1700	580	980
	26"	1200	1600	532	966
	28"	1100	1500	480	896
	30"	1000	1320	426	742

Source: AIL

Laundry Washer Capacities

KNOWING the maximum pounds of dry weight of soiled linens per foot or per inch of length, it is possible to obtain an approximate washer load limit. For instance, a metal wheel 36 inches in diameter and 54 inches long will take 3.05 pounds per inch of length: 3.05 × 54 = 164.7 pounds, maximum load for 36" washer.

Dry Clothes

1. Occupy approximately 0.243 cubic feet per pound.
2. Weigh approximately 4.11 pounds per cubic foot.
3. Displace approximately 0.0125 cubic feet of water per pound.
4. Weigh approximately 0.033 pounds per square foot (single).

Maximum Pounds Dry Per Inch and Per Foot of Length

Diameter of Wheel	Per Inch Metal	Per Inch Wood	Per Foot Metal	Per Foot Wood
30"	2.00 lbs.	1.68 lbs.	24.0 lbs.	20.0 lbs.
36"	3.05	2.36	36.6	28.3
42"	4.17	3.40	50.0	40.8
44"	4.58	3.75	55.0	45.0
54"	6.88	4.80	82.7	57.6

Source: AIL

5. The correct load for a washer is approximately 5 pounds per cubic foot. For rough purposes, a washer will therefore be correctly loaded when it is about 80 percent full of dry load (not packed down hard).
6. Absorb approximately 0.3 gallons of water per dry pound.

Wet Clothes

1. Occupy approximately 0.11 cubic feet per pound of dry clothes.
2. Weigh approximately 3.48 pounds per pound of dry clothes.
3. Weigh approximately 31.8 pounds per cubic foot.
4. Occupy approximately 0.0314 cubic feet per pound.
5. Contain approximately 9.12 pounds of dry clothes per cubic foot.
6. The correct load for a washer is approximately 5 pounds per cubic foot. For rough purposes, a washer will therefore be correctly loaded when it is about 55 percent full of the wet load (with the washer drained).

Source—AIL

Laundry Washer Revolutions Per Minute

Washer speeds should be from 220 to 330 feet per minute dependent on height of ribs, as table shows. As rib height increases fewer revolutions per minute are required to carry load to point of drop

Diameter of Wheel	Height of Ribs 2"	3"	4"	5"	6"	7"	8"	9"
24"	37	34	..	..	..	..	..	..
28"	37	33	30	27	..	..	..	..
32"	37	33	30	27	24	..	..	..
36"	37	33	30	27	24	22	..	..
42"	36	32	29	26	24	22	20	18

Source—AIL

The Fur Department

Fur Conditioning

Precleaning

All coats accepted for fur cleaning should be closely inspected for rips, tears, and fragile or worn pelts. Any torn or worn seams should be repaired at this point of the operation. Take out any loose linings to prevent the cleaning compound from working under them. Moth damage, shedding or cracked hairs, and fugitive dyes (such as are sometimes found on blue and platinum fox) must be reckoned with during this first operation.

After inspection, each coat should be beaten and shaken to remove loose dust and hair, moths and larvae, as well as to fluff up the matted hair. This operation economizes on the cleaning compound because there is

Fur Cleaning Classification

Fur	Drumming Time	Caging Time
WATER RODENTS		
Beaver	1 hour	1 hour
Nutria	1 hour	1 hour
Hudson Seal	30 to 45 minutes	25 to 30 minutes
Muskrat	30 to 40 minutes	15 to 20 minutes
LAND RODENTS		
Rabbit		
Dyed Coney		
Lapin	30 to 45 minutes	30 to 45 minutes
Northern Seal		
Beaverette		
Marmot		
THE CAT FAMILY		
Leopard		
Ocelot		
Leopard Cat	30 to 40 minutes	25 to 30 minutes
Lynx		
Civet Cat		
THE DOG FAMILY		
Fox		
Wolf	45 to 60 minutes (bagged)	These furs usually used for scarfs. To prevent breakage of buckles and eyes, do not cage
Coyote		
Chinese Dog		
THE BEAR FAMILY		
Raccoon	1 hour	1 hour
Bear		
POUCHED ANIMALS		
American Opossum	45 minutes	45 minutes
Australian Opossum		

Fur	Drumming Time	Caging Time
THE WEASEL FAMILY		
Mink	30 to 40 minutes	30 to 40 minutes
Kolinsky	30 to 40 minutes	30 to 40 minutes
Fitch	30 to 40 minutes	30 to 40 minutes
Fisher	30 to 40 minutes	30 to 40 minutes
Weasel	30 to 40 minutes	30 to 40 minutes
Otter	45 minutes	30 minutes
Skunk	45 minutes	30 minutes
CURLY FURS		
Russian Caracul		
Black Caracul		
Chekiang Caracul	20 to 30 minutes	5 to 10 minutes
Persian Lamb		
Krimmer Lamb		
Krimmer		
HOOFED ANIMALS		
Pony	35 to 45 minutes	35 to 45 minutes
Kidskin	20 to 30 minutes	10 minutes
ALASKA SEAL		
Safari Seal	35 to 45 minutes	35 to 45 minutes
Black Seal		
DELICATE FURS		
Galyak		
Chinchilla		Shake out by hand or with a suction work table
Mole	Hand-clean	
Squirrel		
Broadtail		
Barunduki		

Source—Walter Haertel Co.

less loose dirt left in the coat for it to absorb, and also cuts down drumming time. Beating may be quickly accomplished in a vibrating chamber.

Sponge the lining of the garment with a cleaning solvent. This solvent must have properties that remove dirt, grease and most ordinary spots. Pour one pint into a shallow pan, then apply to the lining and rub vigorously with a sponge or brush. Where you have a concentration of dirt, wet down generously with solvent and then use a brush to work this dirt loose. About three or four percent of all linings are badly soiled and will have to be removed and drycleaned.

Drumming and Caging

Put one to five pounds of absorbent into the drum for each coat to be cleaned. Also add one pint of cleaning solvent and one-half pint of water-base cleaning fluid for each coat. Absorbent materials and cleaning fluids should be completely mixed before placing coats in drum. Place coats in drum and revolve for approximately one-half hour. This time may vary, depending on the coat's fragility.

After drumming, garments are placed in the cage and tumbled an average of 45 minutes. Next, the garments are placed in the suction chamber of the vibrating table to remove any excess absorbent material. Each garment is then placed on a work table and both the lining and fur are blown with compressed air. If cleaning material has worked under the lining, open the seams and blow it out, but to avoid excess labor keep seam ripping to a minimum. Use a mechanical beater in conjunction with compressed air to remove lint from curly fur such as Persian lamb.

Glazing Chart

Fur	Rotary Iron	Steam Iron
Beaver	•	
Caracul		
Civet Cat	•	•
Coney	•	•
Ermine		•
Fitch	•	•
Fox		•
Guanaco	•	
Lamb, Persian		
Leopard	•	
Mink	•	•
Mink, Jap	•	•
Mink, Side	•	•
Mouton	•	
Muskrat	•	•
Nutria	•	
Ocelot	•	
Opossum, American	•	•
Opossum, Australian	•	
Otter, Plucked	•	
Persian Paw		
Raccoon	•	•
Raccoon, Sheared	•	
Seal, Alaska	•	
Seal, Hair	•	
Seal, Hudson	•	
Seal, Northern	•	
Seal, Tropical		
Skunk	•	•
Squirrel	•	•
Wolf	•	•
Wolverine	•	•

Source: Walter Huettel Co.

Glazing

Fur glazing is to fur cleaning what pressing is to drycleaning. A fur garment may be cleaned thoroughly, yet will not look well until it has been glazed. Glazing may be accomplished either through the use of solutions or through mechanical means. Solutions used include potassium permanganate, Chinese elm bark soakings, alcohol, plain water, etc.

In recent years steam irons, steam guns and rotary irons have become popular for this purpose, and usually do an excellent job with minimum labor. The method used, of course, must be suited to the particular fur being glazed. The steam-iron method is limited to certain types, such as muskrat, mink and coney. Beaver or mouton types and curly furs should not be steamed. The rotary iron is a grooved, revolving, heated iron which, when properly applied to fur, will straighten out the hair and produce a high sheen and silkiness.

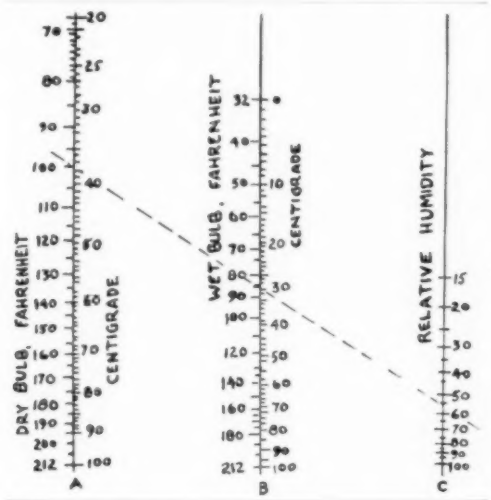
Effects of Excess Humidity

When there is a relative humidity of 65 percent or more in a storage vault, every article in the vault is in danger of being ruined by mildew. Mildew will grow in furs, rugs, and all cloth garments. Humidity of 52-53 percent is plenty for most situations.

It is not generally known that excessive humidity, even if it is not sufficient to cause mildew to grow, can spoil the fit of a fur coat. When humidity reaches a certain maximum, skins become soft and pliable and subject to stretching at the shoulders.

Gauging Relative Humidity

THE accompanying chart makes it possible to gauge relative humidity quickly. Run a straight line through the dry bulb temperature, column A, and the wet bulb temperature, column B. The relative humidity is given



at the intersection with column C. Thus, if the dry bulb temperature is 100 degrees F. and the wet bulb temperature 85 degrees F., the dotted line drawn across the chart shows that the relative humidity, column C, is 54 percent.

The chart is based on a formula developed by the U. S. Bureau of Standards. Temperatures are given in both Fahrenheit and Centigrade.

Fur Storage Definitions

HUMIDITY control is increasingly recognized as one of the most important factors in the successful operation of the fur and woolen garment storage business. Besides moth damage, mold as a damaging element is becoming more important with the growth of the apartment-dwelling population. It calls for accurate and careful humidity control.

If fur garments are kept in an absolutely bone-dry atmosphere they lose some of their natural oils and pliability. They then become vulnerable to breakage and to loss of hair from the pelts. If too much humidity is present, mold damage may completely ruin a garment.

Hence, the subjects of relative humidity, humidity measurements, humidity control, hygroscopic moisture, refrigeration and other phases of scientific storage engineering are important. It is believed that this set of definitions will make a useful contribution to the vocabulary of the industry.

Dew Point: The temperature at which moisture in air will condense if cooled at constant barometric pressure. Air has a capacity to hold moisture which increases with the air temperature and decreases as the air temperature is lowered. If air is cooled to the point where relative humidity reaches 100 percent, the moisture will be given up in the form of condensation. At that temperature, the air has reached dew point.

Example: Air at 70 degrees dry bulb and 65 degrees wet bulb (see below) has a dew point of 62.5 degrees F. If the air is passed over a cooling coil which has its surface maintained at a temperature of below 62.5 degrees, the moisture in the air will be given up as a condensation on the coil (the process of dehumidification or latent cooling).

Relative Humidity: The percentage of the maximum amount of water vapor or moisture which can be absorbed by air at a given temperature. It is determined by a wet bulb depression or can be measured by a direct reading hygrometer. A hygrometer usually employs hair or other material which is sensitive to humidity changes.

Wet Bulb Temperature: Air temperature measured by a thermometer equipped with a wick (on the bulb) which is saturated with water. When air is passed over the bulb, the thermometer will drop below the dry bulb temperature of the air because of the evaporative cooling effect. The wet bulb reading is taken when the wet bulb thermometer reaches its lowest point. The number of degrees it falls below *dry* bulb temperature is called "*wet bulb depression*," which is a measure of relative humidity.

Wet bulb temperature provides a means of determining the latent cooling load or latent cooling effect when used in conjunction with a psychrometric chart. The instrument ordinarily used to take wet bulb reading is a psychrometer.

Example: Air at 70 degrees dry bulb and 60 degrees wet bulb has 56 percent relative humidity and contains 26.5 B.t.u. per pound. At 70 degrees dry bulb and 65 degrees wet bulb, the relative humidity is 77 percent, and total heat contained is 30 B.t.u. per pound.

Refrigeration: May be defined as the process of cooling or removing heat. It is the process by which the temperature of a given space or substance is lowered below that of the atmosphere or surrounding materials. This is accomplished by transferring the heat contained in one substance to another.

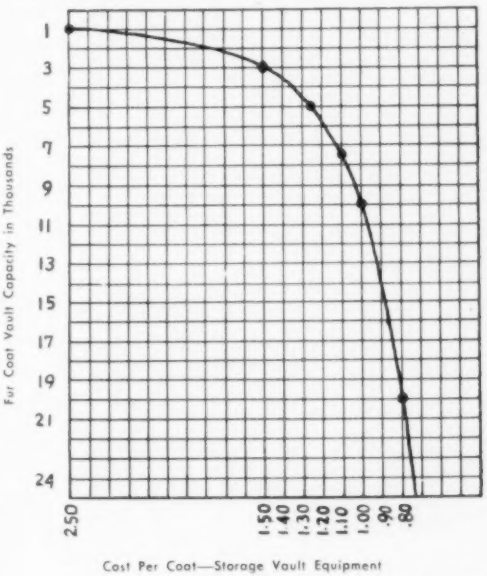
Temperature: Heat can be measured and the degree of intensity of heat is termed temperature. The unit of temperature most used in the refrigerating industry is the degree Fahrenheit. The degree Fahrenheit is 1/180 of the difference between the temperature of melting ice and that of water boiling under standard atmospheric pressure.

Hygroscopy: Hygroscopic materials are those that readily absorb and retain moisture. They are generally of vegetable or animal origin. Furs are hygroscopic.

The temperature and relative humidity of air affect the hygroscopic moisture content of these materials and in turn their weight, strength, appearance, quality and ease of working. The control of hygroscopic moisture may be required during storage to permit easy processing and to fit the weight at the time.

Moisture Content: The sum of free moisture resulting from hygroscopic moisture absorbed from the atmosphere. It is usually expressed as the percentage of the total weight of garments.

Approximate Cost of Vault Equipment



Source: Reliable Fur Storage Equipment Co., Division of Reliable Machine Works, Inc.

Capacities of Fumigation Cabinets

Inside Area (cubic feet)	Capacity (number fur coats)
141	40
219	70
297	100
375	130
453	160
531	190
639	220
717	250

Management Notes

Effects of Price Changes

ALTHOUGH the whole subject of price is highly controversial, there can be no argument with the axiom: "Look before you cut."

Neither of the two price charts given here reflects the situation in any specific cleaning plant. The tables have been prepared merely to show the effects of changed prices under certain assumed conditions. In this respect the information is applicable from a theoretical viewpoint to any plant in the country.

Price Chart 1

Most cleaning plants are laid out to produce a certain number of pieces or pounds per week regardless of price charged. The first table below reflects the results of reduced prices in a plant equipped to handle 1,000 pieces per week at prices averaging $1 per piece.

This "base situation" is recorded in the first line. Column A sets up the various assumed piece prices. Column B reads 1,000 pieces all the way through since the plant is operating at full capacity irrespective of retail charges. Column C reveals the plant's reduced income in dollars while Column D shows identical reductions in percentages. Columns E, F and G point out how reduced prices swell productive labor costs with three different percentages taken as the base.

It is assumed that both quality and wage rates remain stationary. Under these circumstances, if an operator has a productive labor cost of 30 percent at $1 prices, he pays out 30 cents to produce each piece. Furthermore, he continues to pay 30 cents per piece no matter what he charges the customer. While the actual lump sum in dollars paid out each week is the same in every case, the labor cost mounts percentage-wise in relation to the decreasing cash coming in.

Price Chart 2

Approaching reduced prices from a different viewpoint, the second table shows the possible effects of attempting a uniform dollar volume at lowered prices per piece.

Line one, again, is the base—a plant handling 1,000 pieces per week at an average retail charge of $1 per piece. Column A establishes the assumed prices. Column B is the same in every case since the table is set up on the assumption that an attempt is being made to maintain weekly income at $1,000. Column C reports the increasing number of pieces needed to retain the same volume in sales.

Column D interprets increased pieces required in terms of percentages. Note that while a drop from $1 per piece to 80 cents per piece is a cut of only 20 percent in price, the added number of pieces needed is rated at 25 percent. This is explained by the fact that, while additional pieces are being brought in to maintain $1,000 weekly sales at reduced prices, all of this new business produces 20 cents per piece less than do

Price Chart 1

A	B	C	D	E	F	G
Price per piece	Pieces per week	Sales per week	% Decrease in weekly sales below $1 prices	If productive payroll is now 25%	30%	35%
				At reduced prices productive payroll will become		
$1.00	1,000	$1,000	....	25.0%	30.0%	35.0%
.90	1,000	900	10%	27.7%	33.3%	38.8%
.80	1,000	800	20%	31.2%	37.5%	43.5%
.70	1,000	700	30%	35.7%	42.5%	50.0%
.60	1,000	600	40%	40.6%	50.0%	58.3%
.50	1,000	500	50%	50.0%	60.0%	70.0%

Price Chart 2

A	B	C	D	E	F	G	H	I
Price per piece	Weekly sales in dollars	Pieces per week	Percentage of increase in pieces above 1,000	Man-hours required	If productive payroll is now 25%	30%	35%	Percentage of costs to be allotted to supplies
					At reduced prices productive payroll will become			
$1.00	$1,000	1,000	.....	300.0	25.0%	30.0%	35.0%	7.0%
.90	1,000	1,112	11.2%	333.6	27.8%	33.3%	38.9%	7.7%
.80	1,000	1,250	25.0%	375.0	31.2%	37.5%	43.7%	8.7%
.70	1,000	1,429	42.9%	428.7	40.7%	42.8%	50.0%	10.0%
.60	1,000	1,667	66.7%	500.0	41.6%	50.0%	58.3%	11.6%
.50	1,000	2,000	100.0%	600.0	50.0%	60.0%	70.0%	14.0%

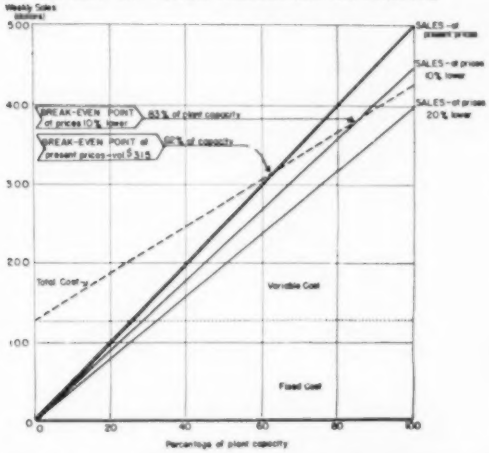
pieces selling at $1. Consequently, the percentage necessary in increased orders will always be greater than the actual percentage of the price cut. Finally, as shown in the last line, a 50 percent reduction in price demands a 100 percent rise in the number of pieces.

Column E records the number of man-hours required to produce certain dollar volumes at various piece prices. Columns F, G and H show the effect on the productive payroll.

Column I reports the percentages of costs which must be allotted for supplies to process the heightened piece volume while dollar volume remains fixed. Here, again, it is supposed that quality of the work and wage rates do not fall off with the declining prices.

It is further assumed that the plant produces 1,000 pieces per week at maximum efficiency. Consequently, the increased pieces required can be processed only by hiring new help. In this case, the actual amount paid out to labor climbs while the number of dollars received from the customers remains fixed.

EFFECT OF PRICE REDUCTION ON PROFITS



With plant operating at 80 percent of capacity, 10 percent price decrease would reduce sales to $360 per week, raise break-even point to $375. If sales at reduced prices were increased to full plant capacity ($450 weekly), profits would be less than if no reduction. With 20 percent price reduction, break-even point would exceed plant capacity

Relationship of Volume to Profit

WHAT counts at the end of the year are the actual dollars in your pocket, regardless of what percentage of sales or invested capital they represent. That's what a man has to live on and have fun on. Percentages tell him how efficient his operations are, which only makes him mad.

The table given here shows how profit percentages must change on a fluctuating volume to enable a plant-owner to maintain a steady dollar income. If his volume is dropping it indicates the point at which he must hold his costs. With increasing volume it tells how much his costs may be permitted to increase and still provide him with the same number of dollars at the end of the year.

Percentage increase or decrease in volume	Profit percentage necessary to hold dollar income	
	A	B
150	9.5	4.9
140	10.3	5.2
130	11.1	6.1
120	12.2	6.9
100 starting point	15.0	7.5
90	17.0	8.2
80	19.5	9.5
70	23.0	11.0
60	27.7	13.2
50	35.3	16.3

In this chart two percentages (15 percent and 7½ percent) were selected merely as examples of the effects of volume changes on the profit. If the dollar profit equals 15 percent of the current volume, then Column A shows the decrease in percentage to total volume that this dollar volume represents as the dollar volume increases. Likewise, it shows the increase in percentage of sales represented by this dollar profit when total sales decrease. If the current profit equals 7½ percent of sales, a similar relationship is indicated in Column B.

For those who wish to toy with such figures, here is the formula for estimating percentages of sales necessary to maintain dollar profits:

1. Set down percent of sales at start as decimal	0.15
2. Add number 1 (1 plus .15)	1.15
3. Multiply by percentage change in volume (10% = .10)	0.115
4. Subtract from number 1 (1 − .115) if volume decreased	0.885
5. Divide into starting percentage (.15 ÷ .885) or 17 percent profit to be maintained	0.17
4. If volume increased, add .115 to number 1	1.115
5. Divide into starting percentage (.15 ÷ 1.115) or 12.2 percent profit to be maintained	0.122

Initial Supplies

THE following list represents the minimum initial supplies required by the new drycleaner who is opening his own plant. Based on the recommendations of one of the country's largest jobbers, quantities are kept low in every case to reduce the original investment.

Cleaning Room

Benzene paste soap (for white wools and white silks)	25 pounds
Liquid filter-soluble soap	5 gallons
Filter aids (diatomaceous earth and/or sweeteners)	200 pounds
Filter screen brush	1
14-quart pails	2
Bristle benzene-soap brushes (for prespotting and handbrushing with dry solvent)	2

Wetcleaning Supplies

Bristle brushes, approximately 2 by 5 inches	2
Scouring brush	1
Standard tallow neutral chip soap	1 barrel
Liquid coconut-oil-base soap	5 gallons
Sulphated fatty alcohol soap (soapless soap)	25 pounds
Hydrosulphite of soda	1 pound
Chloroform substitute	1 gallon
Retouching dye pads	1 set
Retouching dye sticks	1 set
Standard soda	1 barrel
Common salt	100 pounds

(Continued on page 92)

(Continued from page 91)

Spotting Aids

Ammonia, 26	1 gallon
Acetic acid, 28 percent	1 gallon
Glacial acetic acid	1 quart
Oxalic acid crystals	5 pounds
Sodium perborate	5 pounds
Borax	10 pounds
Permanganate of potash	1 pound
Bisulphite of sodium	5 pounds
Standard paint and grease remover	2 gallons
Standard prespotter	2 gallons
Standard ink remover	1 pint
Standard digester	½ pound
Standard lipstick and rouge remover	1 pint
Amyl acetate	1 quart
Combination wet and dry spotter	1 gallon
Eye-dropper bottles	6
Spotting brushes, black and white	1 each
Spatulas (bone scraper)	2
Rust remover (in tube or rubber bottle)	1
Hydrogen peroxide (10 vols. 3 percent)	8 ounces
Cheesecloth	10 yards
Chamois	1
Turkish towels	1 dozen
Spray gun for spotting department (either compressed air or city water pressure)	1

Finishing Department

Press pads, cut to size	6
Press pad covers	18
Cover springs	6 cards
Spray guns for presses	2
Stapling machine	1
Staples	5,000
Record Book No. 39	1
Standard sales or receipt books	50
Moth spray	1 gallon
Paradichlorobenzene crystals	5 pounds

Packaging Supplies

Hangers	3,000
Garment bags (suit—36 inches)	1,500
Garment bags (dress—54 inches)	1,500
Mothproof bags (suit)	100
Mothproof blanket bags	100
Dress shields (for hangers)	2,000
Trouser guards	3,000
Pins, common	1 pound
Pins, safety No. 1	20 gross
Pins, safety No. 2	5 gross
Pins, safety No. 3	5 gross
Tags	10,000
Dress boxes (light)	200
Suit boxes (heavier)	100
Curtain boards	1 bundle
Necktie envelopes, boards and bands	200 each
Glove bags	1,000
Hat bags	1,000
Tie boxes	200
Cotton twine	10 pounds
Cellophane ribbon	1 roll
Wrapping paper, 30-inch	1 roll
Wrapping paper, 36-inch	1 roll
Gummed tape	2 rolls
Scotch tape	2 rolls
Paper cutter	1
Scotch-tape dispenser	1

After acquiring experience with various brands and types of products, the young drycleaner will be in a better position to gain the benefits of buying in quantity. The supplies listed here are entirely adequate aiming for an early volume of $300 to $500 a week.

Wage Incentives

Purposes of Wage Incentives

A. To enable workers to earn larger total or "take home" pay.
B. To obtain for management sufficiently increased production to maintain or lower *unit costs*.
C. To correct wage injustices by keeping wage payments in direct proportion to output—on the principle that "no wages are too high if earned."

Main Obstacles to Installation and Smooth Operation

A. Lack of standardization of articles to be processed.
B. Dissimilarity of methods among different plants.
C. Variety in type and kind of equipment.
D. Difficulties of explaining and making clear to employees purposes and rewards of plan.

Essential Preliminaries

A. Improvement in plant equipment and methods.
B. Efficient layout and workflow.
C. Measurement, by time studies or otherwise, of normal output of all types of work after putting equipment and process on improved and standardized basis.
D. Job Analysis—the analysis and listing of all tasks included in any specific job.
E. Job Evaluation—establishing relative values of different jobs in drycleaning plant.
F. Selection of personnel.
G. Aptitude testing.
H. Training.
I. Setting up of organization chart, clearly defining lines of authority and responsibility.
J. Preparation, in written form, of standard practices and methods.

Further Details of Preliminaries

A. Improvement of methods based on type and grade of service.

Examples: Base price 49 cents—high production standards in finishing and packing.
Modified inspection.
Base price $1.50—lower production standards.
Rigid inspection to maintain high quality workmanship, finishing, packaging. Greater emphasis on employee selection, individual skills.

Both quality and quantity standards should be clearly defined, put in writing before installation of wage incentive plan.

B. Plant layout, workflow, selection and arrangement of equipment. Developed by consideration of owner, manager, superintendent and skilled engineers either from inside plant or outside specialists.

An integral and vital part of the installation of an incentive plan is the work which the plantowner and his supervisors and engineers do to make every motion of every employee easier.

Examples: Shorten distance from which presser must reach for work and extend arm to hang finished garment on line.
If press head suddenly tightens up, extra foot-pound of pressure required to bring it down mounts up to tons of extra effort if repeated all day long.
Five-foot girl who must hang garments on rack made for five-foot-six employee has exerted hundreds of foot-pounds of additional lift at end of day. Prompt provision of platform on which bagger or assembler may work will increase output, prevent dissatisfaction.

Cost Percentages for the Year 1950

Analysis of Percentage Costs According to Sales Volume

Annual Sales	Under $25,000	$25,001 to $40,000	$40,001 to $60,000	$60,001 to $80,000	$80,001 to $100,000	$100,001 to $150,000	$150,001 to $300,000	Over $300,000	Average	NICD "Normal"
No. of Plants Reporting	37	42	30	22	17	23	31	14	216	
Average Base Price	$1.0091	$1.0763	$1.1749	$1.1702	$1.0943	$1.2365	$1.2765	$1.3192	$1.1453	
SALES DISTRIBUTION	%	%	%	%	%	%	%	%	%	%
Call and Delivery	32.88	43.59	39.31	49.75	61.11	60.49	55.82	62.89	56.43	
Branch Stores & Agencies	3.58	0.96	3.82	10.97	6.83	11.65	20.61	28.49	18.21	
Plant Retail	61.11	54.51	53.08	36.18	27.57	25.64	19.49	8.11	23.05	
Work for Press Shops, etc.	2.43	0.94	3.79	3.10	4.49	2.22	4.08	0.51	2.31	
TOTAL SALES	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
PRODUCTION COSTS										
Direct Labor	34.95	39.78	34.99	36.74	36.13	35.19	31.17	28.76	32.29	29.00
Outside Work	1.68	1.70	2.27	2.32	0.94	1.93	2.32	1.84	1.96	
Supplies:										
Solvent	3.71	2.83	2.75	2.24	1.87	2.10	1.89	1.28	1.88	1.75
Soaps, Chemicals, etc.	3.40	3.06	2.52	2.68	2.36	2.55	2.38	1.75	2.27	2.00
Boxes, Bags, Hangers	3.21	2.67	2.55	2.74	2.57	2.48	2.50	2.80	2.66	2.00
All Other Supplies	2.06	1.66	1.24	1.46	1.37	1.40	1.25	1.27	1.34	1.25
TOTAL SUPPLIES	12.38	10.22	9.06	9.12	8.17	8.53	8.02	7.10	8.15	7.00
Power, Light & Heat	7.10	5.09	5.55	3.95	4.27	3.90	3.78	3.34	3.96	4.50
Building	3.97	4.03	3.32	3.38	3.14	2.82	3.68	2.84	3.23	3.50
Machinery	5.21	4.88	4.99	3.71	3.93	3.30	3.88	2.69	3.55	5.00
TOTAL Pwr., Bldg. & Mach.	16.28	14.00	13.86	11.04	11.34	10.02	11.34	8.87	10.74	13.00
Production Overhead	2.98	3.57	4.41	5.36	4.88	6.37	5.18	5.05	5.06	6.00
TOTAL PRODUCTION COSTS	68.27	69.27	64.59	64.58	61.46	62.04	58.03	51.62	58.20	55.00
SELLING & DISTRIBUTION										
Advertising	1.98	2.48	2.68	2.70	2.49	2.63	3.56	3.15	3.02	5.00
Allowances, Bad Debts	0.24	0.22	0.60	0.09	0.42	0.46	0.60	0.25	0.38	
Claims	0.27	0.43	0.40	0.53	0.40	0.47	0.59	0.66	0.55	1.50
Delivery:										
Wages & Commissions	3.62	4.92	6.72	8.71	9.21	8.62	9.66	12.99	10.01	11.00
Truck Maintenance	2.59	2.30	2.79	2.78	3.95	3.84	3.67	4.04	3.62	7.50
Misc. Delivery Exp.	0.10	0.06	0.05	0.12	0.04	0.04	0.08	0.05	0.06	
Branches:										
Rent	0.08	0.07	0.23	0.64	0.40	0.62	0.74	2.42	1.21	
Wages & Commissions	0.29	0.14	0.64	1.80	0.74	2.06	3.06	4.52	2.84	
Misc. Branch Exp.	0.15	0.26	0.40	1.34	0.68	0.55	1.18	1.28	0.99	
TOTAL SELL. & DIST.	9.32	10.88	14.51	18.71	18.33	19.29	23.14	29.36	22.68	25.00
OFFICE & ADMINISTRATIVE										
Office Salaries	1.25	2.16	3.65	2.94	4.16	4.59	4.20	4.17	3.91	3.50
Office Expense	1.11	1.24	1.41	1.36	2.22	1.61	1.53	1.50	1.52	1.50
Executive Salaries	5.41	6.46	7.16	5.76	6.88	6.19	5.00	3.58	5.03	7.00
Administrative Expense	1.12	1.17	1.70	1.46	1.71	1.83	2.07	1.36	1.63	1.00
TOTAL OFFICE & ADM.	8.89	11.03	13.92	11.52	14.97	14.22	12.80	10.61	12.09	13.00
Total Costs	86.48	91.18	93.02	94.81	94.76	95.55	93.97	91.59	92.97	93.00
Net Profit	13.52	8.82	6.98	5.19	5.24	4.45	6.03	8.41	7.03	7.00

Source—National Institute of Cleaning and Dyeing

If each task and motion is made easier, it is possible to improve quality while greatly increasing speed of production.

C. Time studies, or measurement of output at normal speed, made with quality standards already established in mind.

D. Job Analysis. Prepared with cooperation of supervisors and workers.

E. Job Evaluation. Preparation with cooperation of supervisors and workers. Essential for establishment of basic wage rates.

Based on (1) Physical qualifications and working conditions.
(2) Mental qualifications and education.
(3) Specific job skill and related experience.
(4) Responsibilities and personality traits.

Example: Janitor—in many plants most important of non-executive workers, with possible exception of spotters and silk finishers. Greater responsibilities, broader variety of duties than assembler. On other hand, assembler requires clerical ability, more accurate recognition of figures, letters and handwriting than janitor. Wool presser might be illiterate—need only count own output. But janitor must read and understand notes left for him by plant manager, superintendent and others.

F. and G. Aptitude testing necessitated by failure of many employees to recognize own natural abilities.

Examples: Employee who cannot remember four-digit number for one minute unsuited to assembling.
Employee inaccurate in counting and recording numbers.

(Continued on page 94)

Sectional Analysis of Percentage Costs for the Year 1950

Section	I Northeast	II Middle East	III Southeast	IV South Central	V North Central	VI North Midwest	VII South Midwest	VIII Rocky Mountain	IX North Far West	X South Far West
No. of Plants Reporting	16	45	14	8	34	23	39	6	12	19
Average Base Price	$1.1877	$1.1685	$0.8382	$0.9543	$1.2196	$1.2345	$0.9789	$1.2140	$1.4288	$1.3727
SALES DISTRIBUTION	%	%	%	%	%	%	%	%	%	%
Call and Delivery	59.56	54.97	33.67	47.45	66.87	48.39	48.01	24.46	70.26	63.56
Branch Stores & Agencies	14.09	28.13	21.83	7.13	10.27	19.12	12.16	21.86	8.33	10.30
Plant Retail	21.77	13.13	44.50	36.75	21.68	29.51	39.10	53.46	20.80	25.03
Work for Press Shops, etc.	4.58	3.77		8.67	1.18	2.98	0.73	0.22	0.61	1.11
TOTAL SALES	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
PRODUCTION COSTS										
Direct Labor	32.92	30.88	25.03	35.67	31.79	32.87	37.56	40.09	30.68	33.75
Outside Work	2.86	1.83	0.30	2.23	3.33	1.73	1.03	1.20	2.31	1.79
Supplies:										
Solvent	2.01	1.56	3.02	2.24	1.96	2.21	2.08	2.92	1.89	1.57
Soaps, Chemicals, etc.	2.50	2.07	2.42	2.92	2.32	2.74	2.75	2.73	2.23	1.96
Boxes, Bags, Hangers	2.59	2.73	3.54	3.03	2.70	2.76	2.63	2.53	2.14	1.79
All Other Supplies	1.51	1.19	2.02	1.43	1.44	1.14	1.65	1.22	1.35	0.96
TOTAL SUPPLIES	8.61	7.55	11.00	9.63	8.42	8.85	9.11	9.40	7.61	6.28
Power, Light & Heat	4.73	4.01	4.51	4.49	4.29	5.59	3.62	3.77	3.29	2.56
Building	3.66	3.30	1.91	3.03	3.18	4.68	3.62	2.64	3.22	2.73
Machinery	3.88	3.22	3.15	4.75	3.47	3.78	4.68	5.37	4.21	2.97
TOTAL Pwr., Bldg. & Mach.	12.27	10.53	9.57	12.27	10.94	14.05	11.92	11.78	10.72	8.26
Production Overhead	4.97	5.36	3.06	5.71	4.40	4.49	4.61	3.62	6.12	7.25
TOTAL PRODUCTION COSTS	61.63	56.15	48.96	65.51	58.88	61.99	64.23	66.09	57.44	57.33
SELLING & DISTRIBUTION										
Advertising	3.25	3.18	2.38	2.55	3.31	3.27	3.08	3.93	3.58	2.09
Allowances, Bad Debts	0.25	0.41	0.48	0.44	0.10	1.01	0.46	0.05	0.22	0.49
Claims	0.46	0.55	0.84	0.62	0.52	0.46	0.42	0.43	0.59	0.61
Delivery:										
Wages & Commissions	10.44	10.03	13.97	8.38	10.23	6.34	5.69	2.85	10.52	14.73
Truck Maintenance	3.63	4.24	3.27	3.43	3.85	2.89	3.00	2.29	3.17	3.41
Misc. Delivery Exp.	0.10	0.05	0.04	0.09	0.04	0.13	0.12	0.13	0.02	0.05
Branches:										
Rent	1.13	2.86	0.36	0.62	0.35	0.48	0.49	1.37	0.06	0.12
Wages & Commissions	3.10	4.80	2.14	0.97	1.77	2.47	2.14	2.07	1.15	1.37
Misc. Branch Exp.	0.75	1.71	0.88	0.16	0.64	1.44	0.72	0.66	0.26	0.16
TOTAL SELL. & DIST.	23.11	27.83	24.36	17.26	20.81	18.49	16.12	13.78	19.57	23.03
OFFICE & ADMINISTRATIVE										
Office Salaries	3.32	3.91	2.89	3.46	4.44	4.12	3.50	2.00	3.22	4.17
Office Expense	1.85	1.38	1.22	1.27	1.62	1.87	1.60	0.94	1.55	1.64
Executive Salaries	3.68	4.43	5.96	6.26	5.40	5.09	6.65	8.44	4.67	4.12
Administrative Expense	1.55	1.55	1.04	1.36	1.93	1.86	1.24	2.50	1.57	1.58
TOTAL OFFICE & ADM.	10.40	11.27	11.11	12.35	13.39	12.94	12.99	13.88	11.01	11.51
Total Costs	94.14	95.25	84.43	95.12	93.08	93.42	93.34	93.75	88.02	91.87
Net Profit	4.86	4.75	15.57	4.88	6.92	6.58	6.66	6.25	11.98	8.13

Source—National Institute of Cleaning and Dyeing

Section I: Northeast—Conn., Mass., Maine, N.H., R.I., Vt.
Section II: Middle East—Del., D.C., Md., N.J., N.Y., Pa., Va., W.Va.
Section III: Southeast—Fla., Ga., N.C., S.C.
Section IV: South Central—Ala., Ky., La., Miss., Tenn.
Section V: North Central—Ill., Ind., Mich., Ohio
Section VI: North Midwest—Iowa, Minn., Neb., N.D., S.D., Wis.
Section VII: South Midwest—Ark., Kans., Mo., Okla., Texas
Section VIII: Rocky Mountain—Ariz., Colo., N.M., Utah, Wyo.
Section IX: North Far West—Idaho, Mont., Ore., Wash.
Section X: South Far West—Cal., Nev.

(Continued from page 93)

figures and classifications unfitted for the job of marker. Articulate, persuasive, intelligent, sensitive employee unhappy and possibly promoter of discontent on repetitive job, on sales force or otherwise dealing with public may be of great value to employer and personally contented.

II. Training supplemented by definite upgrading program. Most employees work more contentedly and with better results if entire organization operates on principle of promoting capable people as rapidly as possible.

Establishment of Rates Under Wage Incentive Plan

1. Base wage rate based on established normal output—basic task which employer has right to expect and which employee has duty to perform.

Base rate usually paid if employee regularly averages 75, 80 or 85 percent of normal output.

2. Bonus, in addition to base wage rate, for production in excess of basic performance rate.

a. Payment of graduated bonus, beginning with small bonus when about 85 percent of standard is reached, bonus rate increasing until it reaches top limit of production.

Example: If wool pressers can easily press 10 suits per hour, that becomes basic performance rate. Most plans would begin to pay small bonus at about 8½ suits per hour, with bonus rate increasing as production goes above 10 per hour

until it reaches top production rate at which drycleaner may safely operate without deterioration of quality.

b. Controversial alternative – proportionate payments per unit of production all the way through incentive setup.

Example: If presser receives 60 cents per hour and his task or performance rate is 10 suits per hour, labor cost is 6 cents per suit. But if by installation of new and better equipment, presser is enabled to turn out 15 suits per hour of equivalent quality and with no more physical exertion, plantowner-investor should have reward for providing those facilities.

Arguments in such cases can usually be resolved to satisfaction of all parties by employment of outside industrial engineer with good reputation in field.

3. Establishment of production limit to protect standards of quality.

4. Merit rating. Differences in basic rate based on employee's day-to-day performance, attendance, cooperativeness or general attitude, and other pertinent factors, tangible and intangible. Records to be kept on form obtainable from any industrial engineering firm. Periodic review at regular intervals.

Administration of Wage Incentive Plan

1. Record keeping. Complete facilities essential for recording of employee output.

a. Frequent recording of individual production –at least once per hour; many plants record production every half hour.

b. Accessibility. Records easily seen and checked by employee.

2. Supervision. Operation of plan places much greater burden on supervisors. Supervision must be constant, tactful, firm, alert for improvement of working conditions and equipment.

The secret of successful wage incentive plan operation is constant vigilance.

Benefits of Wage Incentive System

Most employees, especially on repetitive jobs, work at about 66 percent of their actual capacity. If they are brought up to 100 percent of their own abilities, and if they and their employers benefit proportionately, this will amount to a 50 percent increase in output.

The difference between drycleaning *plants* and the neighborhood press shops or tailor shops consists in the utilization of machines by the plantowner. Therefore, under the wage incentive system the drycleaning plant operator gets an extra benefit from the fact that his machines as well as his employers are used at more nearly their standards of capacity.

Actually, however, when bonuses are paid for extra production and these bonuses are graduated to pay slightly more per unit above 100 percent, the result from the better employees is usually an output approximately 120 percent of capacity. On such a regular premium production, the employee can often increase his earnings by 25 percent or more.

The whole purpose of the wage incentive plan is to encourage and pay the employee for working steadily at his or her best (yet comfortable) rate of work. In fact, the chief reward to the plantowner in the establishment of wage incentives is to obtain a standard hour's production from his employees each hour of the day. If that aim only is achieved, it is well worth all of the expense, paper work and supervision required.

Production Standards

Pounds per man-hour

	A	B	C	D	E	F	G	H	I	J
Marking	481.6	....	69.3	96.8	50.0	44.4	52.9	27.3	59.1	51.7
Cleaning	72.9	76.0	37.7	40.4	14.0	26.0	30.4	28.0	20.3	26.8
Finishing	30.2	34.5	15.5	14.0	10.9	9.8	11.0	9.7	8.1	6.0
Packing	291.4	75.4	100.3	42.1	37.6	42.0	27.0	37.3	41.6	37.0

Pieces per man-hour

	A	B	C	D	E	F	G	H	I	J
Marking	385.3	....	60.2	67.6	41.4	39.4	40.2	23.1	57.7	49.6
Cleaning	58.4	54.8	32.8	28.2	11.6	23.1	23.1	23.4	19.9	25.6
Finishing	24.1	24.8	13.5	9.8	8.3	8.7	8.4	8.1	7.9	5.7
Packing	233.1	54.4	87.1	29.4	31.2	37.1	20.3	31.6	40.7	35.5

Definitive production standards applicable to any cleaning plant cannot be given for many reasons such as constant changes in methods and equipment, variations in quality standards, job doubling up, especially in small plants. Figures above are from 10 well-managed plants ranging from very low to very high production rates, $5,000 to $45,000 weekly volume, 39-cent to $1.35 prices. Spotting is not included because widest variation in standards is found in that department. High-quality operators should equal lowest output shown; mass-production plants should aim at the top

Southern Service Production Standards

Production job	Pieces per man-hour
Pressing trousers	40
Pressing men's coats	35
Pressing long coats*	20
Finishing long coats by steam-air	40
Pressing skirts**	30
Marking	150
Assembling	125
Pressing mixed wools	20
Pressing silk dresses***	12

*Men's and women's topcoats and lightweight fall and winter coats.
**Without bodices.
***Plain and fancy as they come.

Source: Claude Lucas

Standards of Southern Service Company of California prove that small plants can achieve high production. Prewar volume of this company's plants ranged from about $800 to $5,500 per week, average about $1,500. Smallest in group had same standards as largest

Conversion Ratios

1 gallon of water weighs 8.34 pounds.
1 gallon of water contains 231 cubic inches.
1 cubic foot of water equals 7.5 gallons.
1 cubic foot of water weighs 62.5 pounds.
1 horsepower equals 746 watts.
1 boiler horsepower equals 34.6 pounds of water evaporated per hour from and at 212 degrees Fahrenheit.

	Multiplied by	Equals
Diameter of circle	3.1416	Circumference of circle
Diameter of circle squared	.7854	Area of circle
Gallons of water	.1377	Cubic feet
Cubic feet of water	62.5	Pounds of water
Gallons of water	8.34	Pounds of water
Feet head of water	.433	Pounds of pressure
Pounds pressure of water	2.31	Feet head
Feet head (brine sp. gr. 1.21)	.52	Pounds of pressure
Boiler horsepower	.069	Gallons feed water required per minute
Pounds pressure (brine)	1.92	Feet head
Feet head (gasoline sp. gr. 0.75)	.325	Pounds pressure
Pounds pressure (gasoline)	3.08	Feet head
Inches vacuum	1.132	Feed head
Feet suction lift	.882	Inches vacuum

To convert degrees Fahrenheit to degrees Centigrade, subtract 32 degrees and multiply by five-ninths.
To convert Centigrade to Fahrenheit, multiply by nine-fifths, add 32 degrees.

Engineering Data

Boiler Efficiency

THE OPERATOR of the average small plant doesn't have the time or money nor does he even need the skill to run a series of elaborate tests and go through cumbersome tables to check on his boiler efficiency. In fact, using what the engineer calls nomographs or alignment charts* is even more accurate and requires much less involved calculations.

Here are the steps you take:

1. Find dry flue-gas loss for the particular fuel you're using (Figs. 1-5).

2. Get the hydrogen loss either on the weight basis (Fig. 6) or volume (Fig. 7). Hydrogen ranges for the various fuels are given in the table below.

Hydrogen Ranges

(Range of hydrogen percent, pounds of air, and CO_2 percent for zero excess air for typical solid and liquid fuels)

Fuel	Range of percent hydrogen	Range of lb. of atmospheric air at zero excess air per 10,000 B.t.u.	Range of CO_2 percent at zero excess air
Anthracite	1.8–2.9	7.81–7.93	19.3–20.0
Semianthracite	3.2–3.4	7.68–7.82	19.1–19.2
Low-volatile bituminous	3.9–4.5	7.62–7.73	18.5–18.8
Medium-volatile bituminous	4.7	7.77	18.5
High-volatile bituminous A	4.6–5.9	7.51–7.73	17.7–18.7
High-volatile bituminous B	4.2–5.0	7.56–7.73	18.0–18.7
High-volatile bituminous C	4.0–4.6	7.54–7.67	18.0–18.7
Subbituminous	3.8	7.56–7.57	19.1–19.2
Lignite	2.8–3.1	7.47–7.52	19.2–19.5
Coke	0.5–3.2	7.63–8.13	19.3–20.7
Softwoods	5.8–7.02	7.05–7.22	18.7–20.4
Hardwoods	6.02–6.93	7.09–7.28	19.5–20.5
Bagasse	5.89–6.56	6.25–6.99	19.4–21.0
60 API, gasoline	14.8	7.46	14.87
45 API, kerosene	14.0	7.42	15.12
30 API, gas oil	12.8	7.45	15.48
15 API, fuel oil	11.5	7.58	15.90

Source—Combustion Engineering

3. Find moisture in fuel loss (Fig. 8).

4. Find moisture in air loss (Fig. 9).

5. Find unconsumed carbon in flue gas loss (CO) (Fig. 10).

6. Find unconsumed carbon in refuse loss (ash loss) (Fig. 11).

7. Radiation loss is somewhat difficult to set for small boilers so use 3% at full load; 4.5% at half; 6% at quarter load.

Add steps 1-7 (they are in B.t.u.), subtract from the B.t.u. output per unit of fuel. (For oil it's about 19,000 B.t.u. per lb., Fig. 3.) The subtracted number divided by the full B.t.u. output per unit of fuel gives the boiler efficiency.

On the sample figures shown (Figs. 1-5), let's pick

Source—Fuels and Combustion Handbook, Johnson and Auth, McGraw-Hill Book Co.

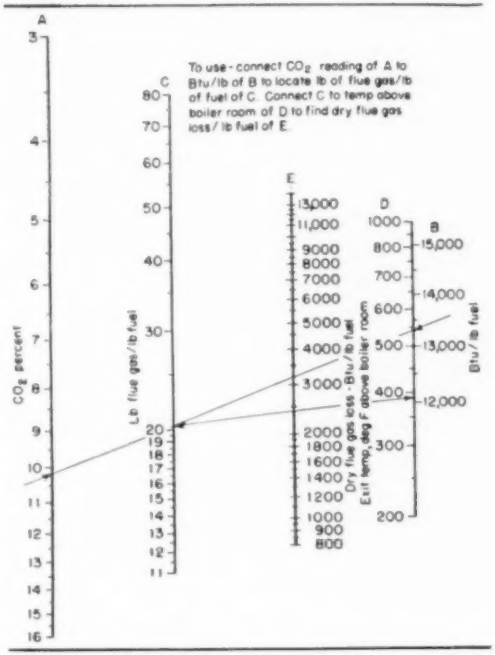


FIG. 1. Dry flue-gas loss—anthracite

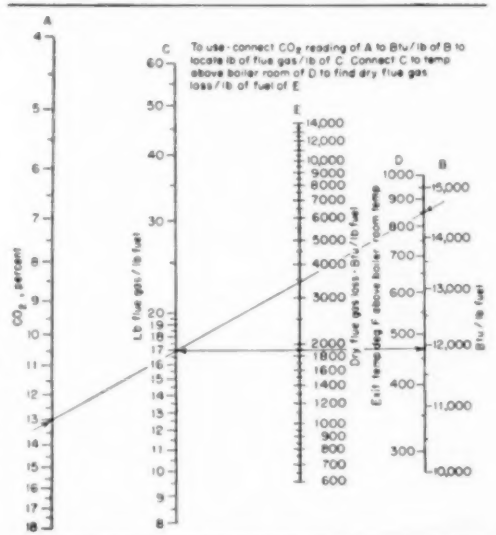


Fig. 2. Dry flue-gas loss—bituminous coal

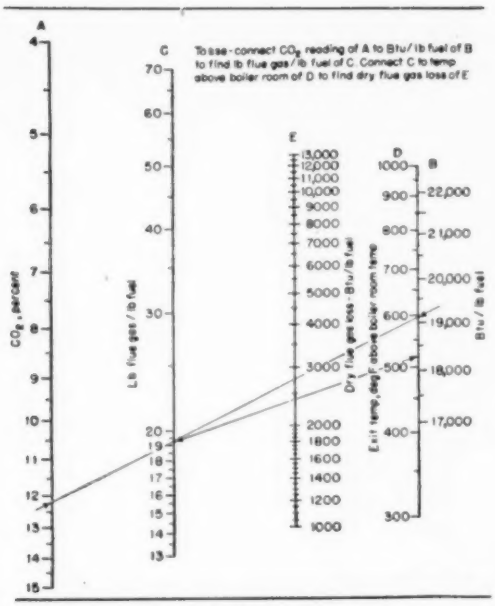


FIG. 3. Dry flue-gas—fuel oil

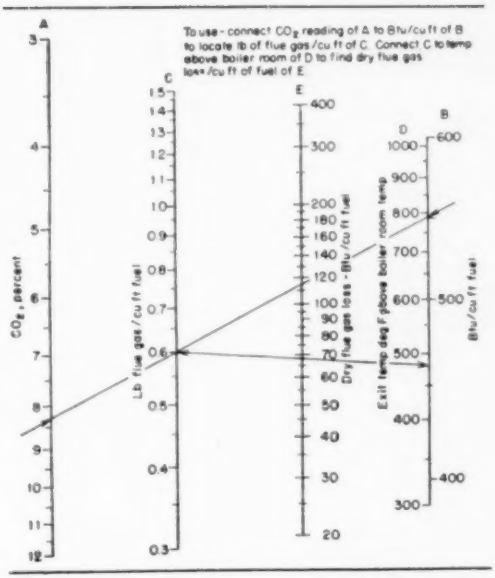


FIG. 5. Dry flue-gas loss—oil gas (Pacific Coast)

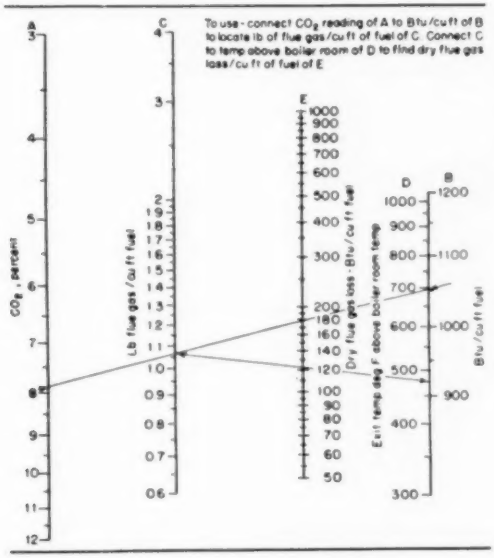


FIG. 4. Dry flue-gas loss—natural gas

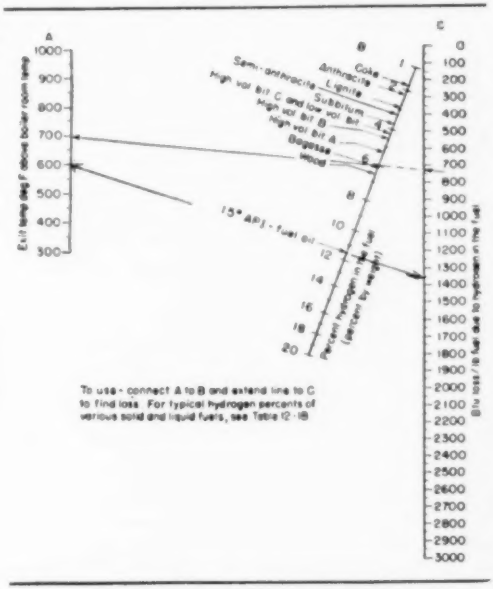


FIG. 6. Heat loss due to hydrogen in the fuel

fuel oil, Fig. 3. Here we start with a CO_2 reading of 12.25%, scale A, and the fuel oil dealer tells us our oil has 19,000 B.t.u. per lb., scale B. Draw a line between the two points. Where it crosses scale C we have the lb. of flue gas developed for every lb. of oil we burn. We look at the temperature of the flue gas leaving the boiler, subtract room temperature to get scale D, exit temperature of flue gas. We connect the two points, stack temperature, scale D, and lbs. of flue gas per lb. of fuel, scale C. Where this line crosses scale E we have the B.t.u. loss, Step 1 of our efficiency check.

For Step 2 we take our stack temperature 600, scale D, Fig. 3, and start with it on scale A, Fig. 6. Go from there to scale B for the fuel oil we're using and go right through that point to scale C. Pick off this reading and we're ready for Step 3.

In Fig. 8 you would start again with stack temperature, 600, scale A, and go over to the moisture you knew

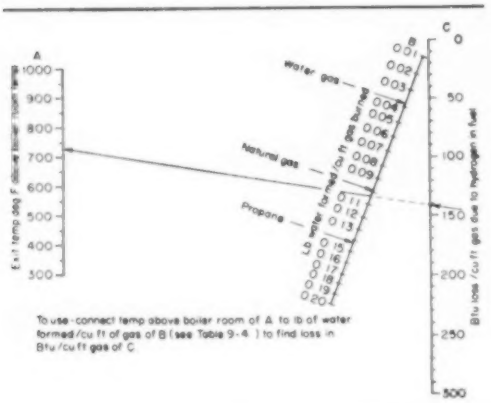


FIG. 7. Heat loss due to hydrogen in gas (volume basis)

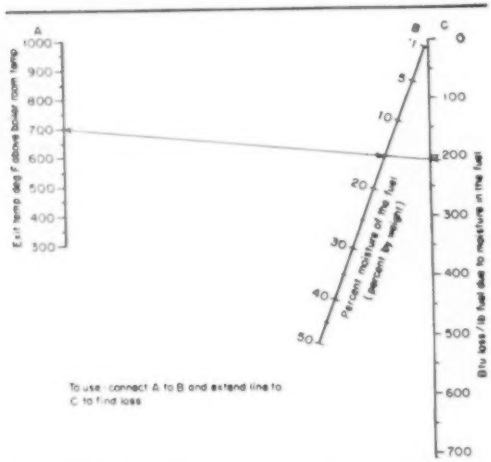


FIG. 8. Heat loss due to moisture in the fuel

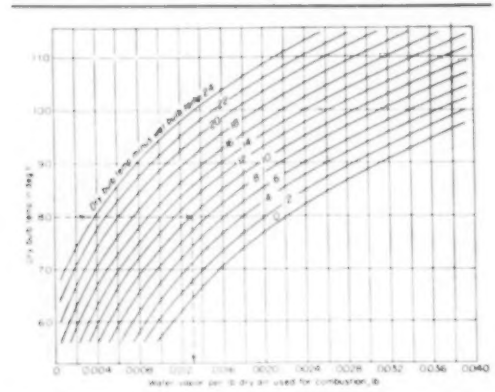


FIG. 9A. Water vapor per pound of dry air used for combustion (pounds)

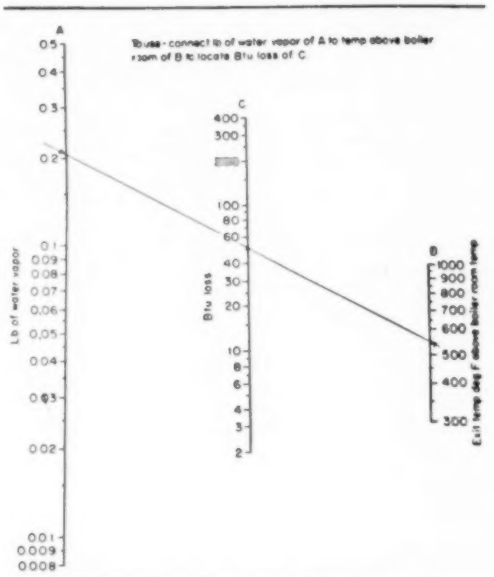


FIG. 9. Heat loss due to heating water vapor

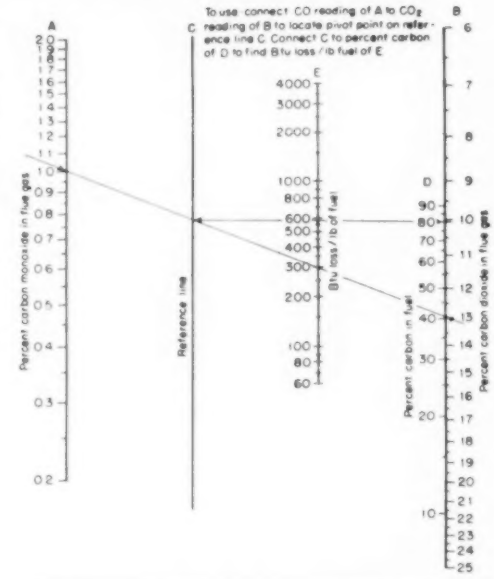


FIG. 10. Loss due to incomplete combustion of carbon as carbon monoxide in stack

was in the oil. But with No. 1 and 2 fuel oil this moisture content is negligible so your losses here are zero.

For Step 4, moisture in air loss, you'd have to have a wet bulb and a dry bulb reading. Your local weather bureau could tell you that at the time you ran a test and it would be perfectly all right if you pulled your air for

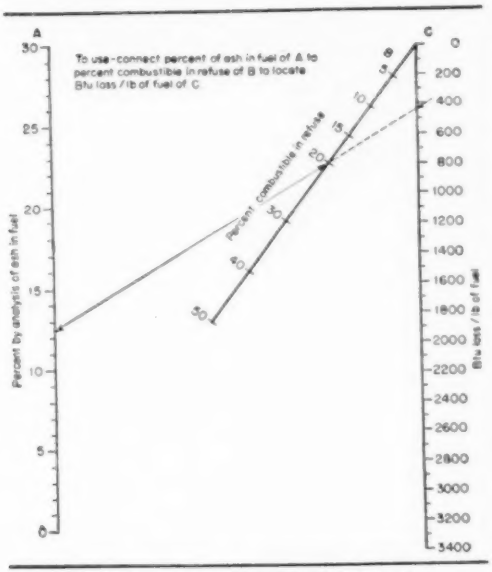


FIG. 11. Loss due to unconsumed carbon in the refuse

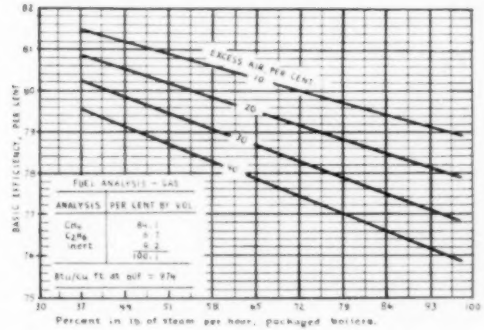
combustion from outside. If not, you should have a reading taken and use Fig. 9A. With this figure move over to Fig. 9, scale A. Cross over from there to stack temperature and where you moved across scale C you'll find the loss for Step 4.

In Fig. 10 start out on scale B with the CO_2 reading you had, Fig. 3. With good mixture your CO, scale A, should be practically zero. For fuel oil, unless you're in bad trouble, that's what you'll have and you can pretty nearly always skip Step 5. We show it for use with other fuels or for cases of real trouble.

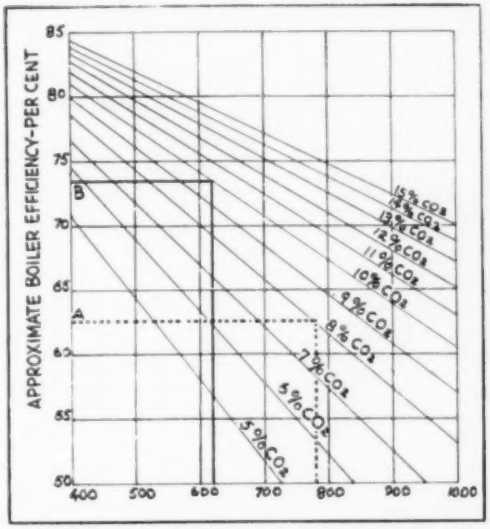
Similarly, for Step 6 the amount of fuel loss in refuse with No. 1 or 2 oils is too small to measure. But the chart (Fig. 11) is used for coal particularly. Get from your coal dealer the figure for scale A. You'd have to send a sample of your ashes to a laboratory to get scale C. Then you'd connect the two points as in the other charts and where you cross the scale B you'd pick off your loss from this cause.

For Step 7 you would use the figures suggested for the load you're carrying on the boiler.

Boiler Efficiency Chart for Gas

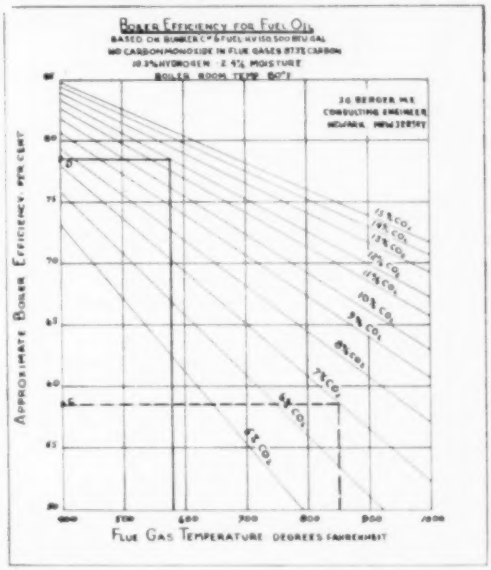


Boiler Efficiency Chart for Soft Coal



Based on flue gas temperature and CO_2 content, the chart provides an approximate efficiency rating for coal-fired boilers. To compute the efficiency of an installation with a flue temperature of 620 degrees and CO_2 content of 10 percent, trace up from the 620 point at the bottom of chart to the diagonal line representing 10 percent; intersection gives approximate boiler efficiency rating of 73.5 percent

Boiler Efficiency Chart for Fuel Oil



Flue gas temperature and CO_2 content known, find flue gas temperature on lower scale and follow up to diagonal line designating CO_2 percentage; point of intersection at left gives approximate boiler efficiency. Dotted line "C" illustrates that boiler with flue temperature of 850 degrees and 7 percent CO_2 content will have efficiency of approximately 58.5 percent. Lowering temperature to 580 degrees and increasing CO_2 to 12 percent would bring boiler efficiency up to 78.5 percent as shown by solid line "D"

EFFICIENCY TABLE
BASED ON EVAPORATION FROM AND AT 212° F.

B.T.U. PER LB. COAL	50% EFF.		55% EFF.		60% EFF.		65% EFF.		70% EFF.		72% EFF.		74% EFF.		76% EFF.		78% EFF.		80% EFF.	
	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL	POUNDS COAL PER H.P. HOUR
7000	3.61	9.56	3.97	8.70	4.33	7.97	4.69	7.36	5.05	6.83	5.19	6.64	5.34	6.46	5.48	6.30	5.63	6.13	5.77	5.98
7500	3.86	8.92	4.25	8.12	4.64	7.44	5.02	6.86	5.41	6.38	5.57	6.20	5.72	6.03	5.88	5.87	6.03	5.72	6.19	5.59
8000	4.12	8.36	4.53	7.60	4.95	6.97	5.36	6.44	5.77	5.98	5.93	5.81	6.09	5.65	6.26	5.50	6.43	5.37	6.60	5.23
8500	4.37	7.87	4.82	7.16	5.26	6.56	5.69	6.04	6.13	5.63	6.31	5.47	6.48	5.32	6.66	5.18	6.83	5.05	7.01	4.93
9000	4.63	7.43	5.10	6.76	5.57	6.20	6.03	5.72	6.49	5.32	6.68	5.16	6.86	5.03	7.05	4.89	7.24	4.77	7.42	4.66
9500	4.89	7.05	5.38	6.41	5.88	5.87	6.36	5.42	6.85	5.03	7.05	4.89	7.24	4.76	7.44	4.64	7.64	4.52	7.83	4.42
10000	5.15	6.69	5.67	6.09	6.18	5.58	6.69	5.15	7.21	4.78	7.42	4.65	7.62	4.52	7.83	4.40	8.04	4.29	8.24	4.19
10500	5.41	6.37	5.95	5.79	6.49	5.31	7.03	4.91	7.57	4.56	7.59	4.43	8.01	4.31	8.22	4.19	8.44	4.09	8.66	3.98
11000	5.67	6.08	6.23	5.53	6.80	5.07	7.36	4.68	7.93	4.35	8.16	4.23	8.38	4.11	8.62	4.00	8.84	3.90	9.07	3.81
11500	5.93	5.82	6.52	5.29	7.11	4.85	7.70	4.48	8.24	4.16	8.53	4.04	8.77	3.93	9.01	3.83	9.25	3.73	9.48	3.64
12000	6.19	5.57	6.80	5.07	7.42	4.63	8.04	4.29	8.66	3.99	8.91	3.87	9.15	3.77	9.39	3.67	9.65	3.58	9.89	3.49
12500	6.45	5.35	7.08	4.87	7.73	4.46	8.37	4.12	9.02	3.83	9.27	3.72	9.53	3.62	9.79	3.52	10.05	3.43	10.31	3.34
13000	6.71	5.15	7.37	4.68	8.04	4.29	8.71	3.96	9.38	3.68	9.65	3.57	9.92	3.48	10.18	3.39	10.45	3.30	10.72	3.23
13500	6.97	4.95	7.65	4.51	8.34	4.13	9.04	3.81	9.73	3.54	10.02	3.44	10.29	3.35	10.57	3.26	10.85	3.18	11.13	3.15
14000	7.23	4.78	7.94	4.35	8.66	3.98	9.38	3.68	10.10	3.42	10.38	3.34	10.67	3.23	10.97	3.15	11.25	3.07	11.54	2.99
14500	7.45	4.61	8.22	4.20	8.97	3.84	9.72	3.55	10.46	3.20	10.76	3.21	11.06	3.12	11.36	3.04	11.66	2.96	11.95	2.88

Source—Detroit Stoker Co.

Trace left from B.t.u. value of coal to column denoting boiler efficiency. Point of intersection gives number of pounds of water evaporated for each pound of coal fed into furnace and number of pounds burned per horsepower. Plant taking 200 hp. per hour and burning coal of 14,000 B.t.u. per pound at 70 percent efficiency will require (from chart) 3.42 pounds of coal per horsepower per hour or total of 684 pounds per hour

Proportions Between Feed Pipes and Main Line

(Number of smaller pipes to equal cross-sectional area of one larger pipe)

Main Line Sizes	Feed Pipe Sizes													
	⅛	½	¾	1	1¼	1½	2	2½	3	3½	4	4½	5	6
⅛	1	...	...	...	...	...	...	...	...	...	...	...	...	...
½	1.6	1	...	...	...	...	...	...	...	...	...	...	...	...
¾	2.8	1.8	1	...	...	...	...	...	...	...	...	...	...	...
1	4.5	2.8	1.6	1	...	...	...	...	...	...	...	...	...	...
1¼	7.8	4.9	2.8	1.7	1	...	...	...	...	...	...	...	...	...
1½	10.6	6.7	3.8	2.4	1.4	1	...	...	...	...	...	...	...	...
2	17.6	11.0	6.3	3.9	2.2	1.6	1	...	...	...	...	...	...	...
2½	25	15.7	9.0	5.5	3.2	2.4	1.4	1	...	...	...	...	...	...
3	39	24.3	13.9	8.6	4.9	3.6	2.2	1.5	1	...	...	...	...	...
3½	52	32	18.5	11.4	6.6	4.8	2.9	2.1	1.3	1	...	...	...	...
4	67	42	24	14.7	8.5	6.3	3.8	2.7	1.7	1.3	1	...	...	...
4½	83	52	30	18.5	10.7	7.8	4.8	3.3	2.2	1.6	1.3	1	...	...
5	105	66	38	23	13.4	9.8	6.0	4.2	2.7	2.0	1.6	1.3	1	...
6	151	95	54	33	19	14.2	8.6	6.0	3.9	2.9	2.3	1.8	1.4	1

Losses From Boiler Scale

Character of scale	Thickness	Loss of efficiency	Coal wasted from every ton of coal fired
Hard	1/50"	5.4%	100 lbs.
Hard	1/32"	7.2%	140 lbs.
Hard	1/25"	9.3%	180 lbs.
Hard	1/16"	12.6%	220 lbs.
Hard	1/9"	15.9%	320 lbs.

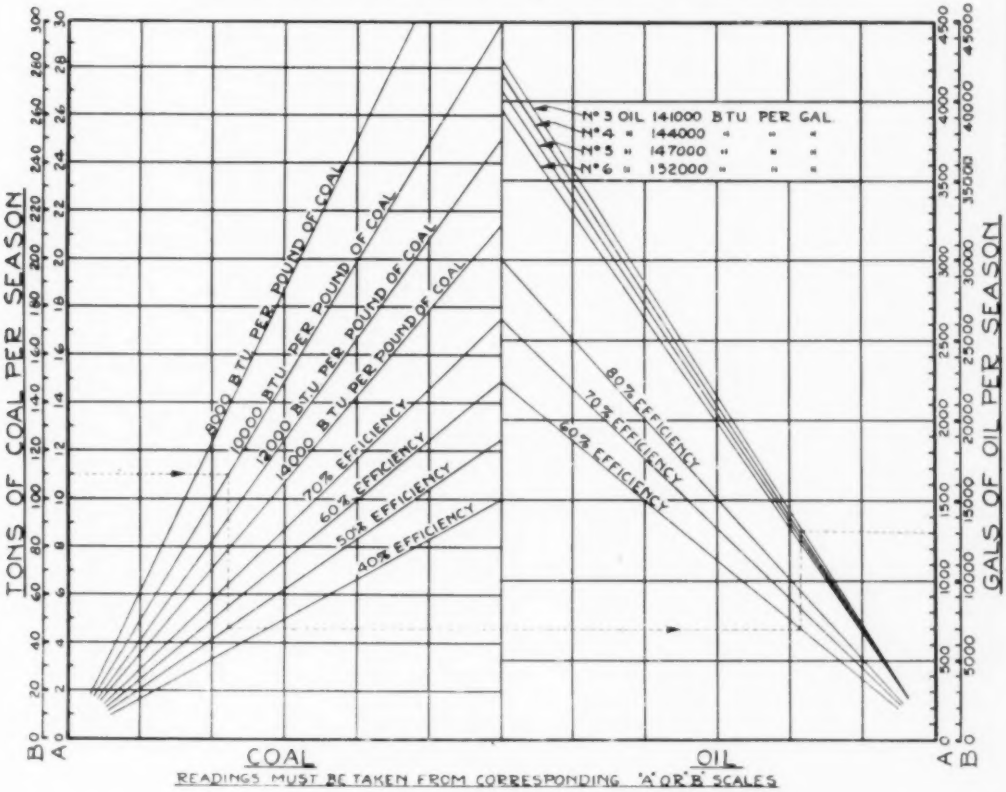
To combat loss in efficiency and excessive fuel costs resulting from boiler scale, some plants remove all scale-forming elements from the water before it is fed to the boiler. This is the ideal method but not always practical. Under other circumstances, feed water is treated with compounds changing the elements in the water from those quick to attach themselves to the boiler to those that remain in solution or form a soft sludge that can be blown out.

Sizes for Boiler Combustion Chambers

Method of firing	B.t.u. per cubic foot	Approximate cubic feet required per hp.
Hand	50,000	1 1/10 cubic feet
Stoker	45,000	1 cubic foot
Oil	30,000	1 1/2 cubic feet
Pulverized Coal	20,000	2 1/4 cubic feet
Gas	30-35,000	1 1/2 cubic feet

In computing cubic contents of combustion chambers measure the depth to bridgewall for underfeed stoker and hand firing; the entire depth for pulverized coal, oil or gas firing and for spreaders or overfeed stokers. Width times height times depth will give the cubic contents. From the table, an oil-fired installation requires 1 1/2 cubic feet of combustion chamber per horsepower, thus a 50 hp. boiler should have about 75 cubic feet of combustion chamber.

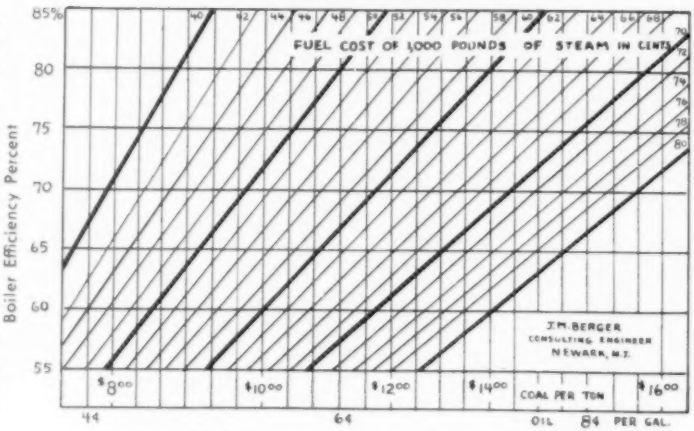
Computing Oil Consumption When Coal Consumption Is Known



When coal consumption is known, this chart permits ready estimation of comparative gallons of oil required. Locate coal consumption on left-hand A or B scale, read right to the heat content, down to the efficiency curve. From this point trace horizontally right to the assumed oil efficiency, up to the grade of oil assumed, then right to the corresponding A or B scale for oil and read to the comparative oil consumption. As illustrated in the dotted lines above, if a plant burns 110 tons of 10,000 B.t.u. coal at an efficiency of 50 percent, a comparative oil burning installation using No. 4 oil at 60 percent efficiency will require 13,000 gallons of oil for the same period. The chart may be used in reverse when oil consumption is known to estimate comparative tons of coal needed for a like period of time

Steam Cost Chart

Chart indicates cost of steam at varying prices for coal and oil with different over-all operating efficiencies. From cost of oil or coal at bottom of chart trace up to point of assumed boiler efficiency (on scale at left). Point of intersection on slanting line will show fuel costs per 1,000 pounds of steam and can be read to nearest cent, or tenth of cent by proportion. For example, using No. 6 Bunker C oil selling at 5.2 cents per gallon, with boiler of 65 percent efficiency, you will be paying 53.4 cents per 1,000 pounds of steam. Improving boiler efficiency to 75 percent will cut steam cost to 46 cents, resulting in saving of 7.4 cents per 1,000 pounds. Or a 70-percent-efficient boiler burning 14,000 B.t.u. coal selling at $10 per ton will deliver 1,000 pounds of steam at 51 cents per 1,000 pounds. This chart may be used in plotting comparative costs of coal and oil or for figuring possible savings from stokers and combustion controls. If fuel costs go higher than shown on chart use one half fuel cost and multiply resulting cost of steam by 2

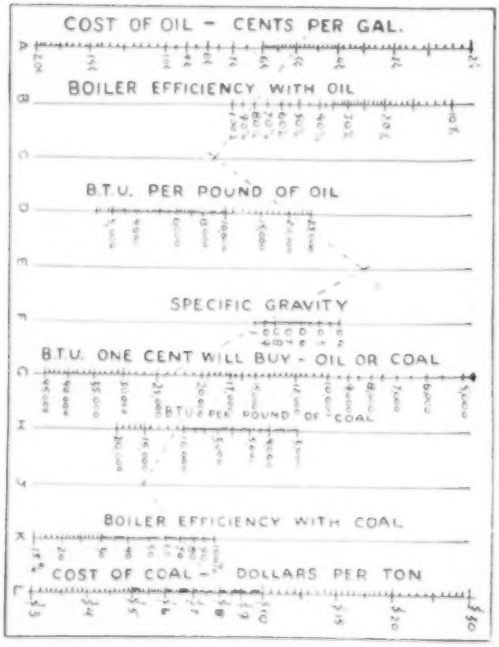


(Based on 14,000 B.t.u. per pound of coal and 150,000 B.t.u. per gallon of oil, steam pressure 105 pounds gauge, moisture 2%, feed water 205° F.)

Coal and Oil Costs Compared

The accompanying chart was developed to assist in checking the cost of coal and oil per B.t.u.

To use the chart zigzag through the cost of oil per gallon, column A; boiler efficiency with oil, column B; B.t.u. per pound of oil, column D, and the specific gravity, column F. The intersection with column G then gives the number of B.t.u. in the oil purchased for one cent.

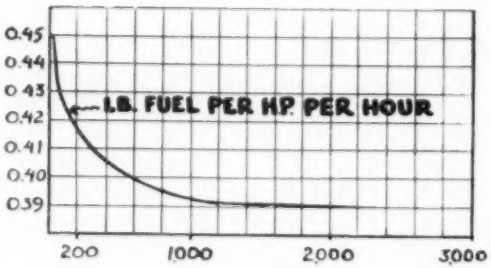


Then zigzag from the bottom through the cost of coal, dollars per ton, column L; boiler efficiency with coal, column K, and B.t.u. per pound of coal, column H. The intersection with column G now gives the number of the B.t.u. in the coal that can be purchased for one cent, permitting a comparison with oil.

The dotted lines drawn across the chart show how oil at five cents per gallon is compared with coal at $8 per ton. In this special instance one cent will buy 24,000 B.t.u. of oil or a little over 19,000 B.t.u. of coal. Oil has the advantage under the conditions of this particular problem.

Diesel Fuel Consumption

The accompanying chart plots approximate fuel consumption of various diesels, based on prewar diesel efficiencies.



For instance, if requirements are very small—50 horsepower or even less—figure on a fuel consumption of 0.45 pounds per horsepower per hour with a modern engine. If a 100 hp. diesel is employed, the consumption will be about 0.42 pounds per horsepower per

hour. The curve shows that with increase in engine size the fuel consumption improves rapidly from the smallest sizes to 200 horsepower. From 200 to 1,000 horsepower the improvement is less rapid. And from 1,000 to 3,000 horsepower the improvement is very slight; it is practically 0.39 pounds per horsepower per hour for all of the sizes in that range.

To determine the efficiency of any engine size, with any fuel, multiply the B.t.u. value of the fuel per pound by the number of pounds per horsepower per hour and divide the product *into* 2,546.

For example, if the fuel contains 20,000 B.t.u. per pound and requirements call for a 500 hp. engine, multiply 20,000 by (from the chart) 0.40, which gives 8,000 as the product. Now divide 2,546 by 8,000 and it will be found that the engine will have an efficiency of 31.8 percent, which is a high efficiency as compared with most engines of other types. This means that 31.8 percent of the heat contained in the fuel will be converted into work. Even at 0.45 pounds of fuel per horsepower per hour, other conditions being the same, efficiency will be 28.3 percent.

Gallons of Water To Feed Boilers

Horsepower	Gallons per minute	Gallons per hour
50	3.45	207
75	5.18	311
100	6.90	414
125	8.63	518
150	10.35	621
175	12.08	725
200	13.80	828
225	15.53	932
250	17.25	1035

One gallon of water weighs 8.34 pounds at 60 degrees Fahrenheit. One boiler horsepower equals 34.5 pounds of water or 4.14 gallons of water evaporated per hour from 212 degrees Fahrenheit.

Boiler hp. × 34.5 = pounds of water required per hour

Boiler hp. × 4.14 = gallons of water required per hour

Boiler hp. × .069 = gallons of water required per minute.

Expansion of Pipe

(Increase in length inches per 100 ft.)

Temp. °F.	Steel	Wrought Iron	Brass or Copper	Temp. °F.	Steel	Wrought Iron	Brass or Copper
20	.15	.15	.25	220	1.80	1.85	2.65
40	.30	.30	.45	240	2.00	2.05	2.90
60	.45	.45	.65	260	2.15	2.20	3.15
80	.60	.60	.90	280	2.35	2.40	3.45
100	.75	.80	1.15	300	2.50	2.60	3.75
120	.90	.95	1.40	320	2.70	2.80	4.05
140	1.10	1.15	1.65	340	2.90	3.05	4.35
160	1.25	1.30	1.90	360	3.05	3.25	4.65
180	1.45	1.50	2.15	380	3.25	3.45	4.95
200	1.45	1.65	2.40	400	3.45	3.65	5.25

Allowance for expansion in any given run of pipe is dependent upon the variations in temperature to which the pipe will be subjected. The table gives expansion in inches per 100 feet of different type pipes at various degrees of temperature. To compute the amount of expansion to be provided in specific lengths of pipe, read from the table the figure showing maximum expansion for 100 feet at the temperature expected. Divide this figure by 100 to determine the expansion per foot and multiply by the length of pipe under consideration. For example, 80 feet of steel pipe taking water at 180 degrees Fahrenheit will require an allowance of 1.16 inches for expansion (1.45, from the chart, ÷ 100 × 80 = 1.16 inches).

Boiler Heat Balances

(For good, fair and poor operating conditions)

	Coal			Fuel Oil			Natural Gas			
	Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor	
Heat lost in unburned coal	0.4	1.5	5.0	....	....	....	....	....	....	Controllable Losses
Heat lost in unburned gas (CO, etc.)	0.2	0.4	5.0	0.2	0.6	6.0	0.2	0.6	5.0	Controllable Losses
Sensible heat lost in products of combustion	4.8	6.8	10.8	4.8	6.8	10.8	4.8	6.8	10.8	Controllable Losses
Heat lost in excess air	0.9	1.9	10.3	0.7	1.9	10.3	0.7	1.9	10.3	Controllable Losses
Latent heat lost in water vapor products of combustion	2.7	2.9	3.0	5.5	5.5	5.5	9.1	9.1	9.1	Fixed Losses
Radiation and unaccounted-for heat losses (by difference)	1.2	2.5	4.0	1.2	2.5	4.0	1.2	2.5	4.0	Fixed Losses
Heat used in generating steam	89.8	84.0	61.9	87.6	82.7	63.4	84.0	79.1	60.8	Steam
Based on flue gas temperature, °F.	300	400	600	300	400	600	300	400	600	
Based on excess air, percent	20	30	100	15	30	100	15	30	100	

Source—Bailey Meter Co.

A boiler that is 84 percent efficient employs 84 percent of the B.t.u. in the fuel for the generation of steam. The accompanying table quotes the percentages of B.t.u. dissipated in various ways of coal-, oil- and gas-fired boilers under good, fair and poor operating efficiencies. These percentages are grouped under controllable losses, fixed losses and those used in generation of steam.

A good installation using coal has an efficiency of 89.8 percent while with a poor installation the efficiency falls to 61.9 percent. Controllable losses are 31.1 percent for the poor coal-fired installation and only 6.3 percent for the good installation.

Not all controllable losses may be eliminated; to reduce some of them greatly may increase others. For instance, if the loss due to excess air is reduced too much, the saving effected will be offset by the increasing losses from unburned gases or smoke.

Facts for Figuring

Group vs. Individual Drive

THE actual horsepower required by a machine is often lower than rated horsepower of the motor which the manufacturer has designated as correct for that machine. A 5 hp. motor, for example, will frequently be prescribed where 4 hp. is the usual required load. This is because the next smaller motor under 5 hp. is 3 hp., which would be too small for continuous loads of 4 hp.

Assume that the loads for a hypothetical group of five motors, three of 5 hp. and two of 3 hp., are actually 4 hp., 4½ hp., 4 hp., 2½ hp. and 3 hp., or a total of 18 hp. instead of 21 hp. Assume that the line shaft consumes 2 hp. at full load and a little less when lightly loaded. Consider also the average load the machines carry. Normally they are not always in operation and are not all fully loaded. In an ordinarily busy drycleaning plant the load factor gets up to 75 percent (much less with excess machinery).

Using this 75 percent of required 18 hp. load, we get 13½ hp. Add to this 2 hp. for friction and you will have a total of 15½ hp. as an average. It is quite likely that a 15 hp. motor will carry the load, provided it is a 40-degree-Centigrade rated motor which can carry 25 percent overload for extended periods. Cost calculations can be based on the efficiency variations of motors, shafting drive losses and investment.

For a period of one month, on the assumption that the purchased electric current is worth 2½ cents per kilowatt hour, comparative costs would be something like this:

	Individual drive	Group drive
Motor cost and wiring (Based on average practice)	$625	$275
Shafting cost	0	170
Total Investment	$625	$445
Efficiency of average load	80%	87%
Average horsepower load	13½	15½
Kilowatt hours consumed in 180 hours	2260	2400
Cost of current for 1 month	$56.50	$60.00

Thus, on the basis of the motors assumed necessary, in this instance the individual motor drive is cheaper by $3.50 a month. By investing $180 more the drycleaner saves $42 a year; in a little more than four years he will have paid off the investment.

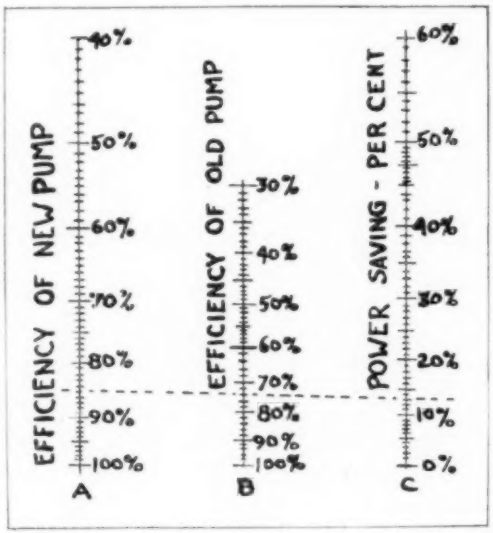
This comparison, however, is subject to certain variations. It also changes with changing operating conditions. No one rule of procedure can be applied to all plants. Different conditions can influence the economy of using individual or group drive. If weekly hours are longer and greater flexibility of operation the aim, individual drive is superior to group drive. If the plant has more equipment than it needs for its volume, the load factor usually drops below 75 percent and individual drive becomes more profitable. As business increases or equipment is more heavily loaded, the load factor goes above 75 percent; then the group drive becomes even more profitable.

With the data given any drycleaner can analyze his own plant by substituting his investments, kilowatt hours and cost of current and set it up for his own conditions as to load factor.

Don't change from group drive without consulting a reliable electrical contractor. If you know the amount of current used it is a simple matter to decide whether or not to change. If you are generating your own current it is easy to estimate current cost by deducting the necessary amount for shafting friction.

Measuring Pump Efficiency

IN comparing efficiency of pumps, users often make the mistake of subtracting the efficiency of the old pump from the efficiency of the new pump and calling



the difference the improvement in efficiency. The correct method is to subtract the two efficiencies, and then divide the difference by the efficiency of the new pump.

If the efficiency of a present pump is 74 percent and installation of a new pump at 85 percent efficiency is planned, the change will not be worth just 11 percent. Efficiency will improve 13 percent, and it will cost 13 percent less to operate the new pump. For example:

$$0.85 - 0.74 = 0.11$$
$$0.11 \div 0.85 = 0.13$$

The accompanying chart makes it easy to determine increases in efficiency without any longhand figuring. Simply run a straight line through the efficiency of the new pump, column A, and the efficiency of the old pump, column B, and the power saving or improvement in efficiency is given in column C. The dotted line here runs from the 85 percent efficiency of the new pump through the 74 percent efficiency of the old, and shows in column C that the power saving is 13 percent.

Computing Tank and Jar Capacities

Square or rectangular:

1. To compute cubic contents multiply length by width by depth. For example, the cubic contents of a tank 10 feet long, 6 feet wide and 4 feet deep is 240 cubic feet.
2. Since 1 cubic foot equals 7½ gallons, the tank above would hold 1,800 gallons (7½x240=1,800 gallons).

Cylindrical or round:

1. Square the diameter and multiply by .7854 and then multiply by the length or depth to obtain cubic contents. Capacity of a cylindrical tank 4 feet in diameter and 6 feet in length is 75.3984 cubic feet (4 x 4 x .7854 x 6=75.3984 cubic feet).
2. With 7½ gallons per cubic foot the tank would hold 565.49 gallons.

NOTE: When dimensions include both feet and inches or inches alone reduce all to feet or to inches before multiplying. If measurements are all in inches, the answer will be cubic inches. To reduce to cubic feet divide by 1728 (1728 cubic inches = 1 cubic foot).

Belt and Pulley Calculations

To Find the Lengths of Belts: Add the diameter of the two pulleys together, multiply by 3⅛ and divide the product by two. Add twice the distance between the centers of the shafts to the quotient and that will be the length required.

To Calculate the Power of Belts: The horsepower of any belt equals its velocity in feet per minute multiplied by its width and divided by 1,000 for single and 700 for double belts. A 1-inch single belt, velocity 1,000 ft. per minute, equals 1 horsepower. A 1-inch double belt, velocity 700 ft. per minute, equals 1 horsepower.

To Find Diameter of the Driving Pulley: Multiply diameter of driven pulley by the number of revolutions per minute and divide by the number of revolutions of driver. Quotient will be diameter of the driver.

To Find the Speed of Driving Pulley: Multiply diameter of the driven pulley by its revolutions per minute and divide by diameter of driver. Quotient will be number of revolutions of driver.

To Find Diameter of the Driven Pulley: Multiply diameter of driver by its number of revolutions per min-

Flexible Metal Hose—Lengths and Minimum Bending Distances

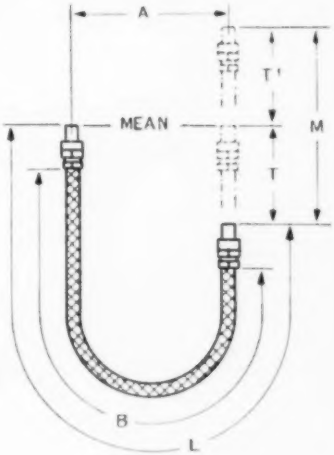
Length of hose includes three factors: Bending Distance A, Travel of Hose M (T + T') and Coupling Factor C. With installation at minimum bending distance A and no travel, take length L from table. For hose subject to travel and installed at distance A, take L from table and add one-half travel when T and T' are equal; when they are not, add the larger. To calculate hose length independently, use following formulae:

Hose I. D. ¼" to 2": Length L = 2½ A + C + T (use T or T' whichever is greater)

Hose I. D. 2½" to 6": Length L = 1¾ A + C (no travel)

HOSE I.D.	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"
A	8"	10"	12"	16"	18"	20"	24"	26"
B	20"	24"	30"	38"	44"	50"	56"	62"
C	4-1/2"	5"	5-1/2"	6"	7"	7-1/2"	8"	8"
L	25"	29"	36"	44"	51"	58"	64"	70"

HOSE I.D.	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
A	28"	30"	64"	72"	78"	84"	108"	120"
B	68"	72"	9' 6"	10' 4"	11'4"	12' 6"	18 FT.	18 FT.
C	9"	9"	9"	11"	-	-	-	-
L	77"	81"	10 FT.	11' 6"	-	-	-	-



Source—Packless Metal Products Corp.

ute and divide by number of revolutions of the driven pulley. Quotient will be the diameter of driven pulley.

To Find Speed of Driven Pulley: Multiply diameter of driver by its number of revolutions per minute and divide by diameter of driven pulley. Quotient will be number of revolutions of driven pulley.

Dimensions of Standard Wrought Pipe

ADEQUATE water supply in the washroom is dependent upon proper balancing between main lines and washer feeder pipe requirements. A battery of ten washers, six taking 2-inch lines and four taking 1½-inch lines, will require a 6-inch main. From the chart, six 2-inch pipes require 6 × 3.355 square inches + four 1½-inch lines, 4 × 2.036 = total 28.274 square inches required. A 6-inch pipe has a total cross-sectional area of 28.891 square inches which will allow for possible future expansion.

Since all washers will not be filling at the same time, a 20 to 25 percent reduction in capacity is permissible between the main line and total requirements of all feeder lines. In the case cited above, a 5-inch main would provide 30 percent less water than the 6-inch pipe. This might be satisfactory with staggered loads, but it would allow no provision for future expansion and would be inadequate for peak requirements.

Nominal Size in Inches	Actual Inside Diameter (Inches)	Inside Cross-Section Area (Square inches)
⅛	.269	.057
¼	.364	.104
½	.493	.191
⅝	.622	.304
¾	.824	.533
1	1.049	.864
1¼	1.380	1.495
1½	1.610	2.036
2	2.067	3.355
2½	2.469	4.788
3	3.068	7.393
3½	3.548	9.886
4	4.026	12.730
4½	4.506	15.947
5	5.047	20.006
6	6.065	28.891
7	....	38.484
8	....	50.265
9	....	63.617
10	....	79.539

Source—AIL

Trap Capacities

(Table of factors for determining at reduced pressure)

Minimum Operating Pressure	Maximum Operating Pressure 5#	10#	15#	20#	30#	40#	50#	60#	70#	80#	90#	100#	125#	150#	200#	225#	250#	300#
1/10 lb.	.14	.10	.09	.08	.07	.06	.05	.05	.05	.04	.04	.04	.04	.04	.03	.03	.03	.03
1/4 lb.	.22	.16	.14	.12	.10	.09	.08	.07	.07	.07	.06	.06	.06	.05	.05	.04	.04	.04
1/2 lb.	.32	.22	.19	.17	.14	.12	.11	.10	.09	.09	.08	.08	.07	.07	.06	.06	.05	.05
1 lb.	.45	.32	.26	.23	.19	.17	.15	.14	.13	.12	.11	.11	.10	.10	.09	.08	.08	.08
2 lbs.	.63	.45	.36	.33	.27	.23	.20	.19	.18	.17	.16	.16	.15	.13	.12	.11	.11	.11
3 lbs.	.78	.55	.45	.40	.33	.29	.27	.24	.23	.21	.20	.19	.18	.16	.15	.14	.13	.13
4 lbs.	.89	.64	.52	.46	.38	.33	.30	.27	.26	.24	.23	.23	.20	.19	.17	.16	.15	.15
5 lbs.	1.00	.71	.58	.52	.43	.37	.34	.31	.29	.27	.26	.25	.23	.21	.19	.18	.18	.16
10 lbs.	...	1.00	.82	.72	.61	.52	.48	.44	.41	.39	.37	.36	.32	.30	.27	.26	.25	.23
15 lbs.	...	...	1.00	.85	.73	.62	.59	.56	.51	.48	.45	.43	.39	.36	.32	.30	.29	.27
20 lbs.	...	...	...	1.00	.83	.73	.66	.61	.58	.55	.51	.49	.44	.42	.36	.34	.33	.31
25 lbs.	...	...	...	...	.91	.80	.78	.69	.65	.61	.55	.53	.47	.46	.40	.38	.37	.34
30 lbs.	...	...	...	...	1.00	.88	.79	.75	.70	.66	.60	.59	.54	.50	.45	.42	.41	.38
40 lbs.	...	...	...	...	...	1.00	.90	.84	.80	.76	.69	.67	.61	.57	.50	.48	.46	.43
50 lbs.	...	...	...	...	...	...	1.00	.93	.89	.84	.78	.75	.68	.63	.56	.53	.51	.48
60 lbs.	...	...	...	...	...	...	...	1.00	.93	.88	.83	.80	.73	.68	.60	.57	.55	.52
70 lbs.	...	...	...	...	...	...	...	...	1.00	.94	.89	.85	.78	.73	.64	.61	.59	.55
80 lbs.	...	...	...	...	...	...	...	...	...	1.00	.95	.91	.82	.75	.68	.66	.63	.59
90 lbs.	...	...	...	...	...	...	...	...	...	...	1.00	.95	.87	.81	.71	.68	.66	.61
100 lbs.	...	...	...	...	...	...	...	...	...	...	...	1.00	.91	.85	.75	.73	.70	.64
125 lbs.	...	...	...	...	...	...	...	...	...	...	...	...	1.00	.93	.83	.80	.75	.71
150 lbs.	...	...	...	...	...	...	...	...	...	...	...	...	...	1.00	.89	.86	.80	.75
175 lbs.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.94	.92	.87	.81
200 lbs.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.00	.96	.90	.85
225 lbs.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.00	.97	.90
250 lbs.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.00	.93

Source—V. D. Anderson Co.

ALTHOUGH a steam trap will operate at pressures below those for which it is designed, the capacity decreases with the fall in pressure. The accompanying table gives correction factors for determining trap capacities at reduced pressures.

Locate the normal operating pressure in the top line; follow down this column to the reduced pressure desired. The point of intersection shows the correction factor. Multiply the normal trap capacity by the correction factor, and the product is the trap capacity under the reduced pressure.

For example, if a trap designed for 225 pounds pressure delivers 1800 pounds of condensate per hour at maximum operating pressure, at 70 pounds pressure the capacity will be 1800 × .61 (correction factor in this case) = 1098 pounds of condensate per hour at the reduced pressure. Excess condensate in heated equipment lowers the temperature.

Index to 1951 Articles

		Page
ACCOUNTING		
Cost Comparisons of 214 Plants for the Year 1949	January	94
Cost Percentages for the Year 1949	January	95
How To Cut Your 1951 Income Tax	April	52
Successful Budgetary Control, Part I	February	38
Successful Budgetary Control, Part II	March	72
ADVERTISING (See "Sales Promotion")		
AIR CONDITIONING (See "Ventilation")		
ALTERATIONS (See "Repairs")		
ASSEMBLY (See "Marking and Assembly")		
ASSOCIATION MEMBERSHIP		
How To Make Membership Pay	September	116
N.I.C.D. Gives More Per Dollar	November	104
CLAIMS		
Unlimited Liability	July	12
CONSTRUCTION		
Cinder-Block Building	August	110
Corrugated Plastic Roof	February	30
Garage Into Cleaning Plant	June	72
New Plant in Rebuilt City	June	114
Night Deposit in Setback Front	July	30
Prepared Plant	February	54
Quonset Has Advantages	June	114
Waterproofing a Basement	March	132
CONSUMER EDUCATION		
Classes for Consumers	November	12
Drycleaners Talk to Public	January	18
Richmond Holds Fabric Clinic	November	84
CUSTOMER CONTROL		
Canny Showmanship Pays	September	58
Customer Records	August	30
Customers Design Cleaning Store	August	44
CUSTOMER RELATIONS		
Envelope for Pocket Contents	July	24
For Manager's Attention	November	24
How To Make Membership Pay	September	116
Patrons Appreciate Sympathy	October	24
DEFENSE PROGRAM		
Defense Data	March	18
Defense Data	April	18
Defense Data	May	18
Defense Data	June	18
Defense Data	July	18
Defense Data	August	18
Defense Data	September	18
Defense Data	October	18
Defense Data	November	18
Defense Data	December	18
The Situation on Shortages	February	18
There Will Be Enough!	December	74
DELIVERY AND DISTRIBUTION		
Coin Machine Changes Drycleaning Distribution	November	52
Curtain Call	June	115
Lockers Work in Small Cities	December	54
Special Trucks for Rugs	June	113
What's in a Name?	April	24
DISPLAY		
Architect Can Save His Fee	October	80
Fluorescent Sign Paint	June	24
The "Little Guys" Advertise	September	24
Mutual-Benefit Displays	June	24
Oak Park Drive-in	February	104
Sign Motion Gets Attention	August	111
Sign of the Time	March	24
Something To Crow About	April	46
Thrift Theme Gets Dye Work	September	24
Two-Faced Hat Rack	October	24
DRIVE-INS		
Cashiers' Cages for Drive-ins	February	52
Expansion Adds 50 Percent to Volume	November	100
Oak Park Drive-in	February	104
Parking Pulls Patronage	September	112
Portable Curb Service	July	80
Side-Street Drive-in Thrives	November	116
DRYCLEANING		
Capacities of Clarifying Tanks	January	82
Capacities of Drycleaning Washers	January	83
Charge System	December	12
Classification Bin	May	30
Cleaning Room Run by Gadgets	October	96
Controlled Moisture	June	50
Emulsions in Drycleaning	April	102
Extractor Speeds	January	83
How To Be an Expert	October	100
Kilowatt Hours To Run Extractors	January	83
Minimum Filter Powder Usage	January	82
Muck Catcher Cuts Maintenance	May	122
On Use of Filter Aid	February	12
Petroleum Solvents	January	80
Physical Properties of Synthetic Solvents	January	79
Pumps for Filter Circulation	January	83
Recommended Drycleaning Washer Speeds	January	83
Records Kept in Cleaning Room	December	30
Save Synthetic Solvent	July	72
Soap Barrel for Mixing Soap	July	30
Solvent Filtration	January	80
Solvent Tests	January	82
Summer Calls for Solvent Coolers	July	106
Synthetic Solvents	January	78
Underground-Tank Connection	December	12
Use and Characteristics of "Sweeteners"	January	82
Water in Solvent Bled Dye	May	112
Weighing Hamper Loads	May	30
What Is Relative Humidity?	July	132
You Don't Have To Be Big!	December	38
DYEING		
Movie Work Is Different	July	110
Thrift Theme Gets Dye Work	September	24
EMPLOYEE RELATIONS		
Gentlemen Clerks	April	58
Getting Along With Your Employees	June	94
Refreshment Aids Plant Morale	October	118
Ten Ways To Cut Turnover	October	139
You Don't Have To Be Big!	December	38
ENGINEERING		
Basic Steps to a Good Piping System	December	59
Belt and Pulley Calculations	January	104
Blowdown Tank	February	64
Boiler Efficiency	January	97
Boiler Efficiency Chart for Fuel Oil	January	98
Boiler Efficiency Chart for Soft Coal	January	98
Boiler Efficiency Tables	January	98
Boiler Heat Balances	January	100
Coal and Oil Costs Compared	January	102
Computing Oil Consumption When Coal Consumption Is Known	January	101
Computing Tank and Jar Capacities	January	104
Conversion Ratios	January	104
Diesel Fuel Consumption	January	101
Dimensions of Standard Wrought Pipe	January	104

ENGINEERING (Continued)

		Page
Drains Vacuum Automatically	June	30
Efficiency Table Based on Evaporation	January	99
Expansion of Pipe	January	100
Finisher Into Heater	December	30
Flexible Metal Hose	January	105
Gallons of Makeup Water To Feed Boilers	January	100
Group vs. Individual Drive	January	103
High Cost of Wet Coal	March	131
How Important Is Boiler Stack Temperature?	October	72
How To Care for Packaged Boilers	July	46
How To Check Shafting	August	113
How To Use Packaged Boilers	June	58
Losses From Boiler Scale	January	100
Measuring Pump Efficiency	January	103
Moisture Strainer Prevents Freezing	January	30
Proportions Between Feed Pipes and Main Line	January	99
Save Tons of Coal!	May	64
Sizes for Boiler Combustion Chambers	January	100
Steam Cost Chart	January	102
To Compute Area of Cylindrical Surface	March	134
Trap Capacities	January	105
Water Backs Up	May	12
Weigh Your Ashes	August	114

FABRICS

Burning Tests for Fibers	January	88
Hearings on Rayon Terminology	June	68
Rayon Resembles Linen	October	68
Rayon Standards Program	May	84
What's New in Fabrics	June	112

FINISHING

Cleaning for Air Base	June	38
Finishing Heat Too High	July	76
How To Raise Finishing Production	May	50
How To Train Finishers	November	38
Maximum Temperatures for Various Fabrics	January	83
Rebuilt Silk Press	January	30
Spraying Speeds Finishing	September	30
Steam-Line Size	January	83

FLOOD

Eyewitness Flood Report	October	66
Report on Flood Damage	October	57
St. Louis Guild Helps Flood Relief	October	60
Topeka Industry Turns to Salvage	October	62

FURS (See also "Storage")

Changing Length of Patterned Furs	September	72
Cleaner's Self-Service Laundry	March	52
Cross-Fox Collar	April	60
Fur Cleaning Classification and Work Chart	January	89
Fur Remodeling Outlook for 1951-52	August	72
Fur Servicing Competition	January	18
How To Blend a Fur Strip	July	66
How To Make a Persian Lamb Collar	May	90
More on Fur Cleaning Controversy	January	12
Oxidized Furs	May	112
Selling in a Small Town	August	52
Substitute for Water in Nailing	April	64

GADGETS

Another Way To Ease Zippers	May	12
Gadgets Cut Up-and-Down Steps	June	60
High-Window Control	August	30
How To Hold Screw in Wood	March	133
No More Vanishing Creases	August	30
Pin-up Gadget	October	30
Short in Control Buttons	October	30
Shot in the Zipper	March	30
To Prevent Lint Pick-up	November	30
Welding "Tacks"	March	133
Wrist Magnet	June	30

HATS

Cleaning From Top to Toe	August	86
"Hat Trick" Publicity	May	24
Two-Faced Hat Rack	October	24

HOUSEHOLD

Continuous Blanket Dryroom	January	30
Curtain Call	June	115
Drape-Stretching Gadget	October	12
Wall Drapes Inspire Business	October	24

INCENTIVES

		Page
Get Ready for Incentives	November	36
Individual Incentives Work Better	July	40
Production Standards	January	96
Wage Incentives	January	93

INSPECTION

Check Charts Save Labor	October	106
Skirt Hangers for Trousers	September	30

INSURANCE

How To Build a Vault That Will Merit a Low Insurance Rating. Storage for the Drycleaner, Part I	October	40

LAUNDRY

Cleaner Challenges Launderettes	May	74
Laundry Extractor Speeds and Centrifugal Force	January	88
Laundry Washer Capacities	January	88
Laundry Washer Revolutions Per Minute	January	88

LAYOUT

Cleaner Challenges Launderettes	May	74
Cleaner Masters Cramped Quarters	October	38
Cleaning for Air Base	June	38
Individual Incentives Work Better	July	40
Made To Work In	October	50
Mr. Blanchard's Dream Plant	September	80
Porthole Panel Intrigues Customers	May	40

LEGAL

Federal vs. State Price Orders	May	18
Legal Decisions	February	102
Legal Decisions	March	104
Legal Decisions	April	80
Legal Decisions	May	118
Legal Decisions	June	92
Legal Decisions	July	114
Legal Decisions	August	92
Legal Decisions	September	104
Legal Decisions	October	110
Legal Decisions	November	66

LEGISLATION

Another Price-Fixing Injunction	August	20
Code Revision in Jackson	May	20
Georgia Sales Tax Exemptions	July	20
New Wage and Hour Law Interpretation	February	18
New Yorkers Win Zoning Appeal	August	20
That Minimum-Price Law	September	120
Toronto Zoning Law	August	20
Wage Minimums in Connecticut	August	20
Zoning Law Relaxed	August	20
Zoning Restriction Removed	March	20

LIGHTING

Corrugated Plastic Roof	February	30

LOT SYSTEM

Belt Control	March	30
Mechanical Piece Count	February	30
Quality Across the Board	March	58
Tallies Lots by Machine	September	38

MAIL ORDER

All-Woman Plant	March	80
Mail-Order Drycleaning	May	60

MAINTENANCE

Bins Save Maintenance Time	May	30
Filter-Screen Hoist	July	30
How To Care for Packaged Boilers	July	46
Made To Work In	October	50
Mobile Tool Cabinet	September	30
Save Synthetic Solvent	July	74
Save Tons of Coal!	May	64
Trough and Cans Keep Floor Clear	November	30

MANAGEMENT

Drycleaning Clinic	April	38
Effect of Price Reduction on Profits	January	92
Effects of Price Changes	January	91
Initial Supplies	January	93
Relationship of Volume to Profit	January	92

		Page
Successful Budgetary Control, Part I	February	38
Successful Budgetary Control, Part II	March	72
You Don't Have To Be Big!	December	38

MARKING AND ASSEMBLY

Automatic Checking and Coded Devices	January	70
Back in the Army	February	68
Belt and Tie Holder	April	30
Belt Control	March	30
Cleaning for Air Base	June	38
Combined Invoice and Marking Tags	January	68
Costs	January	53
Cuts Assembly Cost	May	68
Easier Assembly	November	30
Equipment and Supplies	January	45
Invoices at Fingertip	April	30
Keeps Three B's in Red	June	30
Labor	January	50
Marking—the Hidden Service	January	38
Permanent-Tag System	January	64
Piece Total Marking Tags	January	75
Purposes of Marking and Assembly Methods	January	40
Rubber-Tired Wheel Base	October	30
Simplicity Reduces Errors	January	60
Single Orders on Preprinted Tags	January	66
Supervision	January	52
A Tight Control System	January	55
Visual Assembly	January	58

MERCHANDISE SELLING

Buttons Boom Alterations	September	90
Cleaner's Self-Service Laundry	March	52
Cleaner Starts "Shopping Center"	September	108
Mutual-Aid Operation	August	58
Rug Cleaning Suggests Sidelines	May	108
Used Rugs Cut Labor Costs	May	38

PACKAGING

All-Woman Plant	March	80
A Fold To Please a Sailor	May	24

PERSONALITIES

Cleaner's Courage	July	116

PRODUCTION

Check Charts Save Labor	October	106
Handle Deadheads on Thursday	August	112
How To Raise Finishing Production	May	50
Quality Across the Board	March	58

PUBLICITY AND PUBLIC RELATIONS

Blueprints Sell Rezoning	August	68
Business Needs Vitamins, Too!	July	56
Cleaning Story Hits New York	May	44
Displays Community Events	August	24
Fabrics Forum Wins for Oklahoma City	August	88
Guided Public Relations	March	102
"Hat Trick" Publicity	May	24
The Judge Views the Drycleaner	June	56
Oklahoma Film Premiere	February	99
Resort-Town Success Story	February	44
St. Louis Guild Helps Flood Relief	October	60
Team Awards Win Business	July	135
"We Salute Our Town"	October	122

RACKS AND CONVEYORS

Gadgets Cut Up-and-Down Steps	June	60
Rigid Rack	June	30
Rug Lift	July	68
Small Plant Solves Conveyor Crossover	September	40

REPAIRS

Photography Sells Alterations	November	24
Repairs Farmed Out	March	132
Roll Out the Barrel	August	111
Spotting and Repair Table	April	30

ROUTEMEN

Country Routes Run $1,000	July	60
Dramatic Driver Contest	April	129
Rack for Drivers' Slips	March	30
Resort-Town Success Story	February	44
Routeman's Plantowner	May	102
Routemen Sail Into Contest	August	38

RUGS AND CARPETS

		Page
Easier Rug Drying	March	90
How To Package Rugs	June	46
Rug Cleaning Suggests Sidelines	May	108
Rug Lift	July	68
Shrinkage in Rug Cleaning	April	84
Special Trucks for Rugs	June	113
Used Rugs Cut Labor Costs	May	38

SAFETY AND HEALTH

Protect Yourself and Your Customers	August	94

SALES PROMOTION

Association Sponsors TV Show	September	48
Blanket Stuffer	August	24
Business Needs Vitamins, Too!	July	56
Canny Showmanship Pays	September	58
Cartoon Ads Wow 'Em	July	24
Chain-Store Contest	April	50
Cleaning of the Green	February	24
Cleaning-Store Rendezvous	April	129
Cooperative Prizes	June	115
Country Routes Run $1,000	July	60
Does It With Mirrors	August	109
Dramatic Billboard	August	107
February Sale on Kid's Coats	December	24
Free Tie Offer Brings in Suits	November	24
Hand-Finished Bachelor Bundle	December	24
Honored Ad	May	24
How To Build Store Traffic	August	104
Hub Cleaners Try TV	May	58
The "Little Guys" Advertise	September	24
The Luck of the Irish	March	64
Meet the Man Who Does Your Work	February	24
Mistaken Calendar	March	24
Mutual-Aid Operation	August	58
"Mystery Ads" Build Routes	April	127
Nineteen-Inch Yardstick	August	108
One Billboard Gets Results	August	24
One-Medium Campaign Gets Results	September	88
Parking Pulls Patronage	September	112
Patrons Appreciate Sympathy	October	24
Phone Call Opens Door	November	96
Photography Sells Alterations	November	24
Pocketbook Soap	July	108
Resort-Town Success Story	February	44
Selling in a Small Town	August	52
Short Short Story (newspaper)	September	24
Sign Motion Gets Attention	August	111
Sign of the Time	March	24
Sized Silks Build Business	February	24
Small Cleaners Can Sell	June	42
Something To Crow About (radio)	April	46
Strater's Direct Mail Is Different	October	112
Tape Recorder Livens Radio Show	October	138
Teachers Respond to Direct Mail	August	107
Tests Direct-Mail Returns	December	24
Three-Dimensional Billboard	January	24
Thrift Theme Gets Dye Work	September	24
Tie Rejuvenation	June	24
Timely Stitches	June	24
Wall Drapes Inspire Business	October	24
"We Salute Our Town"	October	122
What's in a Name? (truck)	April	24
Wide Open Space	August	24
Window Cartoons Draw Crowds	April	24
Year-Round Storage Promotion	March	24
You Can't Miss It (billboard)	August	108

SELF-SERVICE LAUNDRY

Cleaner's Self-Service Laundry	March	52
Launderette Adds Drycleaning	September	68

SHIRTS

Hand-Finished Bachelor Bundle	December	24
Shirt-Marking Table	October	30
Shirt-Starching Sorter	August	110
Shirt Unit Pays in Small Town	June	54

SHOE REPAIR

Cleaning From Top to Toe	August	86
Shoe Repair Service	April	76
Small Cleaners Can Sell	June	42

SIDELINES (miscellaneous)

Buttons Boom Alterations	September	90
Cleaning Follows Reweaving	July	24

SIDELINES (Continued)

		Page
How To Clean Baseball Uniforms	December	44
Monkey Business (toy animals)	January	24
Phone Call Opens Door (pillow renovating)	November	96
Re-covering Proves a Profitable Sideline	August	106
Tuxedo Rental Service	August	108

SPOTTING

Alkali Hits Wool	April	64
Alkaline Deodorant	March	78
Apply Soap on Upturn	July	76
Burning Tests for Fibers	January	88
Carbon on Linen	March	78
Clorox-Yellowed Waffle Pique	October	68
Common Spots	January	84
Corrosion Hard To Move	May	112
For Clorox-Yellowed Waffle Pique	December	12
Glacial Acetic Damaging	March	78
Permanent-Acid Color Change	February	88
Practical Spray-Gun Spotting	February	60
Satin Bridal Gown	February	88
Scorched Pants	March	78
Spots Faded on Raincoat	October	68
Spotting and Repair Table	April	30
Spotting Tips	January	87
Stains To Be Prespotted	January	87
Temperature Control for Digester Baths	October	114
Thorough Prespotting for Lipstick	February	88
Use Rust Remover on Ink	October	68
Water Bleeds Corduroy	July	76
Wet Spotter Bled Corduroy	May	112
When To Quit	March	78

STATISTICS

Progress of the Cleaning Industry	March	94

STORAGE

Approximate Cost of Vault Equipment	January	90
Capacities of Fumigation Cabinets	January	90
Fur Storage Definitions	January	90
Gauging Relative Humidity	January	90
How To Build a Vault That Will Merit a Low Insurance Rating		
Storage for the Drycleaner, Part I	October	40
How To Control Vault Conditions		
Storage for the Drycleaner, Part II	November	76
How To Handle Vault Racks		
Storage for the Drycleaner, Part III	December	67
Protect Yourself and Your Customers	August	94
Temporary Receipt Sells Storage	September	76
Year-Round Storage Promotion	March	24

STORES

Architect Can Save His Fee	October	80
The Bundle Drop	April	12
Convenient Pricing Chart	December	30
Counter With Built-in Chair	August	109
Customers Design Cleaning Store	August	44
A Distinctive Counter	January	24
Doing Tricks With Stores	July	38
Mr. Blanchard's Dream Plant	September	80
New Shopping-Center Store	October	116
Night Deposit in Setback Front	July	30
One Way to Keep Counter Top Clear	December	30
Plant Invites Patronage	May	116
Plastic Curtains	April	24
Porthole Panel Intrigues Customers	May	40
Saskatoon Plant Remodels	March	100
Smart Drop Store at Low Cost	September	44
Store to Marking Hopper	August	112

TAILORING (See "Repairs")

TRADE RELATIONS

Drycleaner-Retailer Program	January	18
Fabrics Forum Wins for Oklahoma City	August	88
How Trade Relations Program Works	August	80
Progress Report on Serviceability	April	94
Richmond Holds Fabric Clinic	November	84

TRAINING

How To Raise Finishing Production	May	50
How To Train Finishers	November	38
Price List With Pictures	August	40
Special Training Equipment	January	30
Yankee in Switzerland	February	82

UNSERVICEABLES

Compare Faded and Reverse Sides	April	64
"Dry" Clean Rayon Taffeta	July	76
Gold Thread in White Dress	July	76
Overbleached Lace	April	64
Progress Report on Serviceability	April	94
Project on Drycleaning Tests	June	68
Shoulder Pads Change Color	October	68
Slippage and Pulled Seams	April	64

VENTILATION AND AIR CONDITIONING

Cleaner Masters Cramped Quarters	October	38
Cool Air for Every Press	June	30
Exhaust Hood Over Presses	February	30
Summer Comfort	April	66

WETCLEANING

Blowing Pockets	March	30
Handles Tub Stoppers Quickly	August	30
How To Clean Baseball Uniforms	December	44
New Wetcleaning Device	April	42
Tests for Wetcleaning Department	January	82
Wet-Dry-Wetcleaning	October	12

N. I. C. D. Technical Bulletins

Belts, 186

Bleaching:
- Hydrogen peroxide, 150
- Permanganate vs. perborate, 78
- Wool damage, 75, 76

Buttons, 57, 101, 155, 159, 175, 189, 195

Color Changes:
- Caused by alkalis, 196
- Cold wave solutions, 254
- Discharge prints on silk, 202
- Discharge prints on wools, 192
- Fluorescent dyes, 267
- Gas fading, 93
- On acetate, 252
- On corduroy, 269
- Paradichlorobenzene, 219

Delustering:
- Acetate rayon, 210
- Satins, 211

Distillation:
- Perchlorethylene, 109
- Pre-heating, 48
- Problems, 134
- Stoddard solvent, 94
- Vacuum, 46

Drycleaning:
- Break, 238, 266
- Causes of poor loads, 236
- Charged system, 270
- Classification, 234
- Color change, 37
- Corrosion, 43
- Drying time, 161
- Faulty practices, 131, 141
- Graying, 43, 72, 96, 157
- Humidity, 115, 116, 231
- Rinsing by filtration, 256
- Shrinkage, 116, 142, 194
- Silks, 238
- Solvents (under "S")
- Suds in solvents, 214
- Summer suits, 6, 21, 22, 23
- Water pick-up, 268
- With perchlorethylene, 228, 230, 231, 234

Dyeing:
- Accepting dye work, 55
- Boucle, 15
- Helpful hints, 67
- Stripping dyes, 99
- Sunfaded wool, 73
- Synthetic fabrics, 10

Equipment:
Lightweight irons, 41
Maintenance, 135
Padding presses, 14, 135

Fabrics:
Air-brushed prints, 247
Aluminum metallic, 174
Angora, 71
Aralac, 130, 154
Beachanese, 112
Blackout material, 132
Camel's hair, imitation, 107, 139
Casein, 31
Chafed fabrics, 25
Confetti dot, 22
Congo cloth, 21, 23, 61
Corduroy, 269
Crepes, 4
Curtains, 79, 95
Deodorants, effect on fabrics, 49
Drapes, unserviceable, 68
Electrically heated blankets, 164
Eyelet discoloration, 160
Fabric damage, 129, 175
Faille, 206
Fake furs, 249
Felt, 183, 205
Fiberglas, 173
Fibers, identification, 145
Flock prints, 162, 225
Fluorescent-dyed, 267
Fortisan, 154
Fur fabric, 232
Gabardines, 52, 198, 218, 219
Glass, 64, 162
Imitations, 31, 107, 130, 232
Imitation velvet stripes, 225
Koat-A-Kool, 40
Lacquer stencil prints, 237
Lame, 4
Lanital, 64
Linen, 6
Linen-like fabrics, 38
Marquisette, 41, 53, 263
Matelassé, 232
Metal cloth, 209
Metallic prints, 247
Milium lining, 265
Moire, 57, 187, 216
Mousseline de soie, 4, 41, 53, 263
Nets, 41, 53, 233, 235
Nylon, 100, 102, 132, 154, 175, 179, 221, 233
Orlon, 215
Ottoman, 257
Painted designs, 195
Painted-dot fabrics, 22, 128
Palm Beach, 6
Pinch pleats, 259
Photo prints, 192
Pigment prints, 181
Pique, 199, 201, 217
Plastic-coated fibers, 158, 196
Plexon, 163
Rayon, cellulose acetate
Celanese, 22, 112
Fading, 93, 104
Linings, 57, 112
Moire, 57, 187
Sheers, 122
Wool, 36, 58
Yellowing, 15
Rayon, regenerated
Moire, 187
Pile, 104
Sheers, 122
Spun, 21, 23, 61
Taffeta, unserviceable, 160
Resloom-treated wool, 171
Resins, 154
Ribbon knit, 216
Saran, 154, 166
Satin
Hammered, 227
Lacquered, 27
Lustered, 63
Paperized, 77
Seersucker, 6
Shantungs, 241
Sharkskin, 22
Silk
Linen, 154, 172
Organdy, 239
Prints, 241
Weighted, 188
Wild, 40
Soylon, 154
Spunglass, 64, 154
Spunit, 21
Suede cloth, 225
Surah, 159, 174
Swaggerdown, 38
Taffeta, 22, 66, 191, 205, 210, 235
Tropical worsted, 6, 25
Unserviceable fabrics, 51, 68, 180
Velon, 154, 166
Velvets, 74, 86, 87, 222, 223
Vinyon, 108, 154
Waterproofed materials, 132
Wartime textiles, 132
Wool, resloom-treated, 171

Filtration:
Laboratory tests, 32, 50
Problems, 133

Finishing:
Army uniforms, 121
Ballerina skirts, 201
Bias cuts, 68
Bodice and skirt job breakdown, 170
Buttons, stains from, 57
Cord fabrics, 202
Cuffless trousers, 123
Discolorations during pressing, 35
Express rails, 114
Flimsy fabrics, 41
Fluted garments, 261
Fuzz removal, 25, 139, 172
Leather, 177
Nylon, 102
Pleats and puffs, 12
Pleats, rolled or uncreased, 243
Sack-coat breakdown, 185
Shine and seam impressions, 186
Silk production, 97, 118
Sleeve job breakdown, 167
Steam marks, 219
Suggestions, 113
Summer suits, 6, 21, 22, 23, 25
Sunburst accordion pleats, 245
On wetcleaned garments, 251

Flameproofing, 168, 224

Furniture:
Cleaning, 3, 103

Furs:
Cleaning, 20, 56, 88, 148
Deterioration, causes of, 169
Discoloration, 196
Fur-lined cloth coats, 212
Glued linings, 74
Imitations, 31, 249
Precautions, 5, 119
Research, 110, 111
Special problems, 90
Treatment after cleaning, 89
White furs, 1

Garments:
Army uniforms, 121
Bias-cut garments, 68
Felt, 183
Fluted, 261
Football uniforms, 101, 151
Fur-lined cloth coats, 212
Insulated sport jackets, 182
Knits, 139
Milium-lined, 265
Net evening gowns, 227, 229
Plastic-coated housecoats, 196
Raincoats, 151, 207
Reversibles, 87, 141, 151, 177
Sweaters, 139
Unserviceables, 120
WAF's summer uniform, 263

Gloves:
Summer, 7

Hats:
Blocking, 81, 82
Cleaning, felt, 80
Sizing, felt, 80
Straw hats, 7, 149
Sweatbands, 123

Household:
Curtains, 41, 79
Drapery, 197
Electric blankets, 164
Folding chair covers, 15
Processing, 183
Seat covers, 197
Steam and air finishing, 164

Knitted Trimmings, 209

Leathers:
Cleaning, 13, 73, 74, 92
Facts about, 83
Handling, 203, 204
Puff irons, 177
Spraying, 163
Suede, 102
Trimmings, 54
Wetcleaning, 85
White glazed, 15

Mothproofing:
Application, 193
Tests, 19, 226, 250
Types, 193

Odor:
Rancid solvent, 29
Synthetic, 69

Packaging:
Folding chair covers, 15
Suggestions, 33

Presses:
Cleaning head, 41
Padding, 14

Rugs:
Axminster, 106
Frieze, 34, 98
Klearflax, 212
Shampooing fugitives, 34
Wartime, 139

Sequins, 47, 105, 152, 205

Shoulder Pads:
Cause of color changes, 229
Cause of fire, 212
Vinyon, 213

Shrinkage:
Effect of humidity, 116
Wool, in drycleaning, 194

Sizing:
Plastic sizing, 229, 235
Types and uses, 39

Soaps:
"Breaking down," 242
Comparisons, 9, 26, 28
Effect on redeposition, 244, 246, 248
Tests, 30
Two-soap process, 248, 262
With perchlorethylene, 228

Solvents:
Petroleum
Corrosion, 43
Distillation, 94
Drying time, 161
Effect on lice, 136
Evaporation rate, 90
Fatty acids, 29, 70
Good and poor loads, 236
Laboratory tests, 62
Loss in extraction, 153
Practical tests, 59
Rancidity, 29
Used solvent, 24
Use in synthetic equipment, 124
Synthetic
Conservation of, 117, 253
Corrosion, 43
Effect on lice, 140
Fatty acids, 29, 70
Mixing, 260
Operational tests, 2, 11
Perchlorethylene distillation, 109

Perchlorethylene, drycleaning tests, 228, 230, 231, 234
Practical tests, 59
Rancidity, 29
Suggestions, 69

Souring:
Damage to acetate rayon, 218

Spotting:
Airplane glue, 52
Artificial flowers, 52
Bleaching damage, 75, 76
Bubble-Lite stains, 207
Butesin picrate, 201
Cement stains, 41
Chamois reclaiming, 10
Cold wave solutions, 155
Corrosion, 43, 65, 72
Digesters, 144
Evening-gown hems, 177
Heater for digestion, 213
Hemlines, 190
Hydrogen peroxide, 150
Ink stains, 42, 176, 178, 192, 196
Jewelry stains, 102
Leg makeup, 155
Lipstick, 146, 200
Mustard, 202
Nail polish, 65
Neckties, 52
Paints, water emulsion, 200
Permanganate vs. perborate, 78
Picric acid, 201
Prespotting, 188
Silver nitrate, 52
Ski wax, 107
Soaking stains, 72
Suggestions, 52
Summer suits, 6, 21, 22, 23
Tannin, 65
Yellow streaks, 15

Storage:
Cold storage, 16, 17
Dry storage, 17
Maintenance, 18
Research, 110, 111
Storage, 137, 138
Vault construction, 138

Unserviceables:
Adhesives, 112
Air-brushed prints, 247
Black interlinings, 180
Blue organdy, 221
Buttons, 57, 101, 155, 159, 173, 175, 189, 195
Casein fabrics, 31
Colored paddings, 41
Discharge prints, 202
Dyestuff, 112
Fake furs, 249
Flock print, 225
Fur fabric, 232
Glued glitter, 233
Icebox flowers, 31
Imitation velvet stripes, 225
Lacquer stencil prints, 237
Metallic prints, 247, 265
Organdy, 220
Ottoman, 257
Painted dots, 128
Petti pleats, 239
Pinch pleats, 259
Pink dye, 201
Plastic-coated innerlinings, 186
Printed metallic stripes, 214
Prints, 165
Raincoats, 207
Rayon taffeta, 160, 191, 205
Satin, hammered, 227
Sponge rubber shoulder pads, 190
Tropical men's wear suiting, 255
Waffle pique, 199, 201
What is it, 120
Wool-cotton or wool-rayon yarns, 51
Vinyon, 108
Zippers, 171

Water Repellents:
Application wet and dry, 71
Plasticizers, 144
Raincoats, 151
Repellents, 127, 132
Tests, 125, 240, 264

Wetcleaning:
Dresses, 8
Necessity of, 95
Practical suggestions, 60
Problems, 143
Summer suits, 6, 21, 22, 23
Unserviceables, 120
Water, 147

Zippers:
Lubrication, 175
Nylon, 175
Unserviceable, 171

Courses in Drycleaning and Related Subjects

NOTE. Time limits on GI educational benefits:

Veterans of World War II can no longer *start* education or training under GI bill.

Veterans who enlisted or reenlisted under Armed Forces Recruitment Act (Public Law 190) between October 6, 1945, and October 5, 1946, must begin courses within 4 years from end of enlistment or reenlistment period, complete them within 9 years from that date.

Disabled veterans may begin education or training (Public Law 16) at any time after discharge but must complete courses by July 25, 1956.

Association Schools

National Institute of Cleaning and Dyeing
Silver Spring, Maryland

GENERAL COURSE

Subjects: Drycleaning, spotting, wetcleaning, finishing. Theory, laboratory, plant practice.
Duration: 12 weeks.
Fees: Tuition $300; textbooks and supplies $25; laboratory fee $1.
Eligibility: Bona fide connection with member plant (waived for veterans); 1 year plant experience; 18 years age minimum.

GI approved.

PLANT MANAGEMENT

Subjects: Supervisory methods, wage incentives, work standards, layout, production control, customer relations, salesmanship, advertising, accounting, budgeting, effective writing and speaking, etc.
Duration: 4 weeks.
Fees: Tuition $275; textbooks and supplies included.
Eligibility: Bona fide connection with member plant (waived for veterans).

GI approved.

RUG CLEANING COURSE

Subjects: Practical rug cleaning, carpet construction, identification, spotting and stain removal, applied science and engineering.
Duration: 3 weeks.
Fees: Tuition $115; textbooks and supplies $7, laboratory fee $1.
Eligibility: Bona fide connection with member plant, NICD or NIRC.

SILK FINISHING

Subjects: Finishing, fabrics, department layout, production figures and expectations.
Duration: 2 weeks.
Fees: Tuition $70; textbooks and supplies $6.
Eligibility: Bona fide connection with member plant, NICD.

WOOL FINISHING

Subjects: Finishing, fiber identification, garment construction, department layout, production rate.
Duration: 2 weeks.
Fees: Tuition $70; textbooks and supplies $6.
Eligibility: Bona fide connection with member plant, NICD.

New York School of Dry Cleaning, Inc.
412 Lafayette Street, New York 3, N. Y.

Sponsored by: Neighborhood Cleaners Association.
Subjects: (A) Principles and practices of drycleaning—

spotting, fabrics and dyes, drycleaning, wetcleaning; (B) Comprehensive drycleaning—drycleaning, spotting, prespotting, chemicals, fabrics and dyes, wetcleaning, pressing; (C) Pressing; (D) Advanced drycleaning.

Duration: (A) 80 hours, 10 weeks; (B) 870 hours, 37 weeks day sessions, 40 weeks evening; (C) 80 hours, 10 weeks; (D) 80 hours, 10 weeks.

Fees: (A) $100; (B) $800; (C) $100; (D) $100.

Eligibility: (A) Write for requirements; (B) (C) No experience requirements; (D) Graduation (A) or equivalent.

GI approved: (B) only.

Public Schools, Association-Sponsored

Baltimore Vocational School for Drycleaning and Finishing
2614 Pennsylvania Avenue, Baltimore 17, Maryland

Conducted by: Department of Education, Division of Vocational Education, Baltimore, Maryland.

Sponsored by: Retail Cleaning Plant Owners, Inc. (Baltimore)

Subjects: Cleaning, wetcleaning and bleaching, spotting, finishing, storage, business practice and store management.

Duration: 1440 hours (52 weeks).

Dates: Students may enter at any time.

Fees: Nonveterans $45 month full-time, $22.50 month half-time, plus books.

GI approved.

Central Arts and Crafts School
Montreal, Quebec, Canada

Conducted by: Department of Youth and Social Welfare, Province of Quebec.

Sponsored by: Launderers and Dry Cleaners' Association of the Province of Quebec, Inc.

Subject: Spotting.

Duration: 20 weeks, one (3-hour) evening per week.

Fee: $10.

School of Drycleaning Techniques
Central Technical School
275 Lippincott Street, Toronto, Ontario, Canada

Conducted by: Board of Education, City of Toronto.

Sponsored by: Dry Cleaners Institute (Ontario)

Subjects: Spotting, wetcleaning, heavy (wool) finishing, silk finishing, textiles. Theory and practice.

Duration: (A) Day school, 2 years, includes general high school subjects; (B) evening course, one night a week all subjects.

Dates: (A) September through June; (B) October through March.

Fees: (A) None Toronto residents, $350 year nonresidents; (B) $5 registration Toronto residents, $15 non-residents.

Eligibility: (A) Grade VIII or equivalent; (B) employment in industry.

University of British Columbia, Extension Department
Vancouver, B. C., Canada

Sponsored by: Vancouver Laundry, Dry Cleaners and Linen Supply Association.

Subjects: Textile chemistry and spotting; theory and practice.

Duration: 16 weeks, one evening a week.

Fees: $10.

Trade Schools and Colleges

Essex County Vocational and Technical High School
300 North 13th Street, Newark 7, New Jersey

Conducted by: Essex County Board of Education.

Approved by: Wholesale Dyers and Cleaners Association.

Subjects: Related and technical drycleaning and spotting.

Duration: 1 year.

Dates: Fall and spring terms, 3 months each, 2 evenings per week.

Fees: No fee for those who work or live in Essex County. For others, $21 per term.

Eligibility: (A) Bona fide apprentices in drycleaning establishments; (B) employees in drycleaning industry.

Hampton Institute, Division of Trades and Industries
Hampton, Virginia

Subjects: Complete course in tailoring and drycleaning. Includes some academic subjects.

Duration: 5 school years and 2 summers.

Dates: Early September to end May; summer session middle June to middle August.

Fees: Estimated expense for one college year $850, including registration, tuition, activities, laboratory, room, laundry, meals, etc. Possibility of loans, part-time employment.

Eligibility: High-school graduates.

GI approved.

Los Angeles Trade-Technical Junior College
Frank Wiggins Trade School
1646 South Olive Street, Los Angeles 15, California

Conducted by: Los Angeles Board of Education.

Subjects: Drycleaning (fundamentals only), silk and wool finishing, spotting, wetcleaning; practice and theory. Fabric analysis, busheling.

Duration: 10 months.

Dates: About September 1 to June 30.

Fee: Registration dues $2, plus small fee for materials.

Eligibility: Residents of Los Angeles area are given priority.

GI approved.

North Georgia Trade and Vocational School
Clarkesville, Georgia

Subjects: Complete general drycleaning course.

Duration: 12 months.

Dates: Enrollment at any time during year.

Fees: None for Georgia residents; out-of-state students $35.55 per month. Board, room and laundry $40 per month.

Eligibility: Minimum age 16, white. Both men and women, but no dormitory facilities for women. Out-of-state students eligible.

GI approved.

Oakland Public Schools
Laney Trade and Technical Institute
240 East 10th Street, Oakland, California

Conducted by: Board of Education, Oakland.

Subjects: Spotting, pressing, ladies' tailoring.

Duration: Full school year of two semesters.

Dates: Regular school term.

Fees: $2 registration per semester, except high-school and continuation students.

Eligibility: Residents of Oakland or neighboring community.

GI approved.

Oklahoma Agricultural and Mechanical College
School of Technical Training
Okmulgee, Oklahoma

Sponsored by: Oklahoma Association of Cleaners and Dyers, Dry Cleaners Institute of Texas, Kansas Cleaners and Dyers Association.

Subjects: (A) General course: drycleaning, silk finishing, wool finishing, spotting and wetcleaning, and related subjects, practice and theory. (B) Short course: drycleaning, silk finishing, wool finishing, spotting and wetcleaning, custom felt hatmaking, felt hat renovating, straw hat manufacture and renovation.

Duration: (A) Individual advancement, usual time one year; (B) Each course 8 weeks, 8-hour day.

Fees: (A) $250 per semester (three 16-week semesters); (B) $125 for each 8-week short course, including books and supplies. Low-cost housing and meals available.

Eligibility: Prerequisite for spotting and wetcleaning course only: drycleaning course or previous plant experience.

GI approved.

Oregon Technical Institute
School of Industrial Education
Oretech, Oregon

Conducted by: Oregon State Board of Education.

Subjects: Drycleaning, spotting, wetcleaning, finishing, marking, assembly, all sidelines; practice and

theory. Drycleaning business management.
Duration: 10 months (3 terms of 3½ months).
Dates: Entrance twice per term.
Fees: Per term: $50 tuition, $14 shop fee; out-of-state students $10 extra.
Eligibility: Minimum age 16 years.
GI approved.

Commercial Schools

Empire Institute of Tailoring
422 East Fifth Street, Hazleton, Pennsylvania

Subjects: Tailoring, pattern designing.
Duration: Each course 12 weeks, 25-hour week.
Dates: Students accepted as openings occur.
Fees: $300. Cloth and supplies included.
Eligibility: Male or female over 16 years.
GI approved.

New England School of Dry Cleaning
1755 Revere Beach Parkway, Everett, Massachusetts

Subjects: (A) Spotting practice and fundamentals of drycleaning; (B) advanced silk spotting.
Duration: (A) 10 weeks, 2 evenings per week; (B) 10 weeks, one evening per week.
Dates: Fall, winter and spring classes.
Fees: (A) $100 plus $10 for laboratory materials and supplies; (B) $60 plus $5 for laboratory materials and supplies.
Eligibility: No restrictions.
GI approved.

Correspondence School

Hubbard Drycleaning and Redyeing School
Silver Spring, Maryland

Subjects: (1) General course (for managers and owners). (2) Drycleaning. (3) Spotting. (4) Wetcleaning, bleaching and stripping. (5) Dyeing all materials. (6) Drycleaning and spotting. (7) Spotting and wetcleaning. (8) Drycleaning, spotting and wetcleaning. (9) Spotting, wetcleaning and dyeing. (10) Applied chemistry for garment cleaners.
Fees: (First figure cash; second installment payments) (1) $72.50, $87.50 (2, 3 or 4) $32.50, $38.50. (5 or 6) $48.50, $57.50. (7) $38.50, $48.50. (8 or 9) $58.50, $68.50. (10) $50.00, $62.50.

Books for Drycleaners

ABC's of Drycleaning. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $7.50 per 100 (sold to members only).

Alterations of Men's Clothing. Second edition. By David Carlin. Fairchild Publications, Inc., 7 E. 12th St., New York 3, N. Y. $5.00.

Applied Science for Drycleaners. By George P. Fulton. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $6.50; members $3.25.

Briefs for Broadcasting. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $1.00 (sold to members only).

Common Sense Incentives for the Small Shop. By Ed Vasselos and Harold Whitaker. Common Sense Incentives, P. O. Box 562, Sheboygan, Wis. $5.00.

The Drycleaning Department. By C. B. Randall. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $3.50; members $1.75.

Establishing and Operating a Dry Cleaning Business. Revised Edition. U. S. Department of Commerce, Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. 45 cents.

The Fur Book. By David G. Kaplan. The National Cleaner & Dyer, 304 E. 45th St., New York 17, N. Y. $7.50.

A Handbook for Route Salesmen. By Fred DeArmond. Moore Publishing Company, 48 W. 38th St., New York 18, N. Y. $2.00

Legislative Digest. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $1.00 (sold to members only).

The Lot System. By Claude E. Lucas. Pacific Laundry & Cleaning Journal, 124 Second St., San Francisco 5, Cal. $4.00.

Production in Silk Finishing. The National Institute of Cleaning and Dyeing, Silver Spring, Md. 50 cents (sold to members only).

Profitable Alterations. The National Cleaner & Dyer, 304 E. 45th St., New York 17, N. Y. 50 cents.

Route Sales Management. By Fred DeArmond and George N. Graf. Moore Publishing Company, 48 W. 38th St., New York 18, N. Y. $5.00.

Sell Drycleaning. By Stuart Standish. With incentive-program material. Sell Drycleaning, 510 N. Dearborn St., Chicago 10, Ill. Includes The Executive Manual, $13.50; The Trainer's Manual, $10.50; Salesmen Training Releases, $8.00.

Sell Drycleaning From the Store. With incentive-program material. By Stuart Standish and Nancy Garner. Sell Drycleaning, 510 N. Dearborn St., Chicago 10, Ill. $5.00.

Silk Finishing. By J. W. Maher. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $3.50; members $1.75.

The Spotting Department. By Clyde Covington. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $3.50; members $1.75.

The Spotting Manual. Revised edition. By Allen O. Fligor and Paul C. Trimble. The National Cleaner & Dyer, 304 E. 45th St., New York 17, N. Y. $5.00.

Spotter's Pocket Guide. Spotter's Pocket Guide, P. O. Box 265, Silver Spring, Md. $3.00.

Uniform Account Classification for Drycleaning Plants. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $1.00 (sold to members only).

Wage Incentive Procedures for Drycleaners. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $1.00 (sold to members only).

Wetcleaning. By Norbert J. Berg. The National Institute of Cleaning and Dyeing, Silver Spring, Md. $3.50; members $1.75.

Who's Liable? The National Institute of Cleaning and Dyeing, Silver Spring, Md. 50 cents (sold to members only).

List of Exhibitors

EXHIBITOR	BOOTH NO.
Adco, Inc., 900 W. Main St., Sedalia, Mo.	512, 514
American Drycleaner, 21 W. Huron St., Chicago, Ill.	309
American Hatters Supplies, Inc., 9 E. Harrison St., Chicago, Ill.	209
American Laundry Machinery Co., Ross & Section Ave., Cincinnati, Ohio	101, 103
American Mothproofing Co., 711 N. Euclid Ave., St. Louis, Mo.	96
Anderson-Prichard Oil Corp., 1000 Apco Tower, Oklahoma City, Okla.	78
Armour & Co., 1355 W. 31st St., Chicago, Ill.	356
Armstrong Machine Works, 816 Maple St., Three Rivers, Mich.	59
Arrow Manufacturing Co., 2924 Terrace St., Kansas City, Mo.	807
Ayr-Mor Machinery Co., Inc., 6546 N. Sheridan Rd., Chicago, Ill.	258, 260
Benwall Mfg. Co., Inc., 2859 Atlantic Ave., Brooklyn, N. Y.	358
G. H. Bishop Co., 621 S. Kolmar Ave., Chicago, Ill.	54
Bock Laundry Machine Co., Toledo Factories Bldg., Toledo 2, Ohio	57
Boston Clip & Tag Co., 48 Grove St., Somerville, Mass.	255
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.	265
Butler Mfg. Co., 7400 E. 13th St., Kansas City, Mo.	262, 264
Caled Products Co., Inc., Brentwood, Md.	98, 99
Calgon, Inc., 323 Fourth Ave., Pittsburgh, Pa.	52B
Carman & Co., Inc., 70 Summit St., Brooklyn, N. Y.	90
Certified Chemical & Equipment Co., 1472 E. 25th St., Cleveland, Ohio	461
Chandler Machine Co., West St., Ayer, Mass.	455, 457
Chevrolet Motor Div., Commercial & Truck Dept., General Motors Bldg., Detroit, Mich.	464, 465
E. L. Chrisman Co., Inc., 8255 Compton Ave., Los Angeles, Cal.	254, 256
W. M. Cissell Mfg. Co., Inc., 831 S. First St., Louisville, Ky.	213, 215
Cleaners Hanger Co., 18140 James Couzens Highway, Detroit, Mich.	305
Cleaners Specialties Supplies Co., 6615 N. Fairfield Ave., Chicago, Ill.	37, 38
Cleaning & Laundry News, 815 Witmer St., Los Angeles, Cal.	16
Cleaning & Laundry World, 1114 First Ave., New York, N. Y.	12
Colgate-Palmolive-Peet Co., 105 Hudson St., Jersey City, N. J.	91
Cook Machinery Co., 2220 Main St., Dallas, Texas	257, 259
Cravenette Co., Eighth & Madison Sts., Hoboken, N. J.	47
Darco Dept., Atlas Powder Co., 60 E. 42nd St., New York, N. Y.	85
Davies-Young Soap Co., P. O. Box 995, Dayton, Ohio	155
Detrex Corp., Box 501, Detroit, Mich.	351, 353
Dicalite Div., Great Lakes Carbon Corp., 612 S. Flower St., Los Angeles, Cal.	506
Dow Chemical Co., Midland, Mich.	162, 164
E. F. Drew & Co., Inc., 15 E. 26th St., New York, N. Y.	55
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.	359, 361
Eaton Chemical & Dyestuff Co., 1490 Franklin St., Detroit, Mich.	93
Emery Industries, Inc., 2504 Carew Tower, Cincinnati, Ohio	30, 31
Excelsior Machinery Co., 1452 Randolph St., Detroit 26, Mich.	261
Fabric Laundry & Drycleaning Machinery Corp., 192 Banker St., Brooklyn, N. Y.	302
Filtrol Corp., 727 W. Seventh St., Los Angeles, Cal.	404
Flashomatic Sales Co., 78-82 N. Summit St., Akron, Ohio	456
Fletcher Works, Inc., Glenwood Ave. & Second St., Philadelphia, Pa.	156
Forse Equipment Corp., Anderson, Ind.	3
Foster-Stephens, Inc., 310 S. Christiana, Chicago, Ill.	49, 50
Fry Bros Co., 1728-46 Dana Ave., Cincinnati, Ohio	310
Fumol Corp., 49-65 Van Dam St., Long Island City 1, N. Y.	462
Furtex Rejuvenating Corp., 258 E. Third St., Mount Vernon, N. Y.	401, 403
Garment Dyers Guild of America, 818 Dorman St., Indianapolis, Ind.	15
Garment Finishing Equipment Corp., Sharon, Pa.	161
Bill Glover, Inc., 5204 E. 15th St., Kansas City, Mo.	113, 115
Gross Machinery Co., Inc., 179 Halbert St., Buffalo, N. Y.	350, 352

EXHIBITOR	BOOTH NO.
The Guide, 316 Peachtree St., N. E., Atlanta, Ga.	7
Gulf Oil Corp., Gulf Bldg., Pittsburgh, Pa.	803
Gustin-Kramer Co., 74-80 Cummington St., Boston, Mass.	94
Walter Haertel Co., 2840 Fourth Ave., S., Minneapolis, Minn.	450, 452
Hammond Laundry-Cleaning Machinery Co., Hammond Bldg., Waco, Texas	95
Hatters Supply House, 404 S. Wells St., Chicago, Ill.	106
Hild Floor Machine Co., 740 W. Washington Blvd., Chicago, Ill.	564
Hopkins Equipment Co., 68 Maple Ave., Hatfield, Pa.	29
Hoyt Mfg. Corp., 994 Jefferson St., Fall River, Mass.	802
Huebsch Mfg. Co., 3775 N. Holton St., Milwaukee, Wis.	412, 414
Huntington Laboratories, Inc., 900 E. Tipton St., Huntington, Ind.	354
Huron Milling Co., 9 Park Pl., New York, N. Y.	6
Ideal Lighting Co., 2219 63rd St., Kenosha, Wis.	33
Indiana Mfg. Co., 1900 E. Main St., New Albany, Ind.	88
International Harvester Co., Motor Trucks, 180 N. Michigan Ave., Chicago, Ill.	800
Johns-Manville, 22 E. 40th St., New York, N. Y.	550, 552
Keever Starch Co., 538 E. Town St., Columbus, Ohio	60
Kennedy Products Co., 4125 Orchard Lane, Cincinnati, Ohio	207
Keystone Aniline & Chemical Co., 321 N. Loomis St., Chicago, Ill.	410
Kisco Boiler & Engineering Co., 2414 DeKalb, St. Louis, Mo.	1
H. Kohnstamm & Co., Inc., 11 E. Illinois St., Chicago, Ill.	48
Kwik-Kover Sales, 410 N. Kedzie Ave., Chicago, Ill.	28
W. A. Laidlaw Wire Co., Peoria, Ill.	205
W. T. Lane & Bros., Inc., Prospect St., Poughkeepsie, N. Y.	210
Laundry Age, 48 W. 38th St., New York, N. Y.	46
Lincoln Bag Co., Inc. (Para-Lux Products Co.), 4200 W. Schubert Ave., Chicago, Ill.	311, 313, 315
Loomis Bros. Equipment Co., Anna, Ill.	36
McDonnell & Miller, Inc., 3500 N. Spaulding Ave., Chicago, Ill.	706
Manitowoc Cotton Goods Mfg. Co., 909 York St., Manitowoc, Wis.	804
Manitowoc Shipbuilding Co., 510 S. 16th St., Manitowoc, Wis.	703, 704
Marion Mfg. Co., 473 Stephens, S. W., Atlanta, Ga.	510
Mar-Mak Rug Machinery Co., 626 N. Logan Ave., Danville, Ill.	363
Medalie Mfg. Co., 213 First Ave., N., Minneapolis, Minn.	707
Mehl Mfg. Co., 2057 Reading Rd., Cincinnati, Ohio	409, 411
Mercury Cleaning Systems, Inc., 549 W. Washington Blvd., Chicago, Ill.	400, 402
Merson Products Co., 63 Essex St., Jersey City, N. J.	554
Minnesota Chemical Co., 2285 Hampden Ave., St. Paul, Minn.	365
Mortemoth Chemical Laboratories, 3178 N. Fratney St., Milwaukee, Wis.	65
Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul, Minn.	362, 364
National Cleaner & Dyer, 304 E. 45th St., New York, N. Y.	306, 308
National Indemnity Exchange, 3820 Washington Blvd., St. Louis, Mo.	556
National Marking Machine Co., 4026 Cherry St., Cincinnati, Ohio	52-A
Nevinger Mfg. Co., Inc., Harris Ave., Greenville, Ill.	56
Newhouse Co., 1247 E. Colorado Blvd., Glendale, Cal.	89
New York Pressing Machinery Corp., 880 Broadway, New York 3, N. Y.	163, 165
Nu-Life Mfg. Co., 8818 Manchester Rd., St. Louis, Mo.	360
Nu-Pro Mfg. Co., 2918 Washington Ave., St. Louis, Mo.	2
Olson Filtration Engineers, Inc., 1624 N. Kilbourn Ave., Chicago, Ill.	300
Pabst Sales Co., 221 N. LaSalle St., Chicago, Ill.	13
Pantex Mfg. Corp., P. O. Box 660, Pawtucket, R. I.	105, 107
Paulin Products Co., 4444 Lawndale Ave., Lyons, Ill.	87
Pellerin Milnor Corp., 8000 Edinburgh St., New Orleans, La.	413, 415
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia, Pa.	304
Permo Products Co., P. O. Box 25, Linwood Station, Detroit 6, Mich.	705
Phoenix Products Co., 4715 N. 27th St., Milwaukee, Wis.	82

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PROG

43rd Annual Conv

National Institute of

St. Louis,

February 7, 8

ALBERT E. JOHNSON

W. R. DUNCAN

WEDNESDAY, FEBRUARY 6

1:00-9:30 p.m. Advance Registration—Gold Room, Jefferson Hotel

THURSDAY, FEBRUARY 7

9:00 a.m. Registration—Gold Room, Jefferson Hotel, and Kiel Auditorium

9:30 a.m. Convention Session, Gold Room, Jefferson Hotel
Presiding: T. E. Milholland, President, NICD
Showing of Motion Picture

10:00 a.m. Call to Order and Introduction of Board of Directors—T. E. Milholland
"As I See It"—T. E. Milholland

DR. DOROTHY S. LYLE

GEORGE P. FULTON

MEET US IN ST. LOUIS!

Visit Booths 306-308

THE NATIONAL CLEANER & DYER

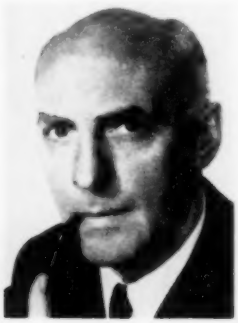
and

Starchroom Laundry Journal

ROBERT E. COWIE

DR. J. C. ALEXANDER

RICHARD HARKNESS



DR. RAYMOND WALSH

OGRAM

Convention and Exhibit
of Cleaning and Dyeing
ouis, Missouri
7, 8 and 9, 1952

Hotel

nd Kiel

el

ctors—

"The Why and How of Our Defense Program"—Roger L. Putnam, Administrator, Economic Stabilization Agency
"How To Live With Inflation"—Dr. Raymond Walsh, Economist

12:00-5:00 p.m. Opening of Exhibit, Kiel Auditorium
1:00 p.m. Ladies' Sightseeing Tour, Starting From Jefferson Hotel
Evening Get-Together and Dance, Gold Room, Jefferson Hotel

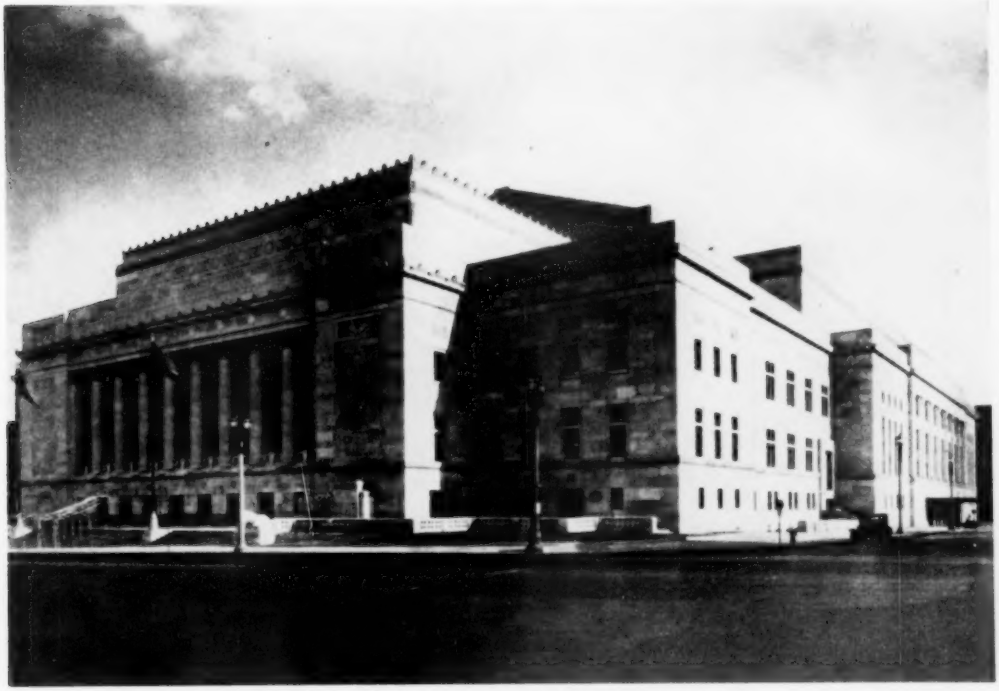
FRIDAY, FEBRUARY 8

9:30 a.m. Convention Session, Gold Room, Jefferson Hotel
Presiding: W. M. Cannan, Vice President, NICD
Showing of Motion Picture
"So You Think It's Tannin"—Dr. J. C. Alexander, Assistant Director of Research, NICD
"Should We Charge It?"—George P. Fulton, Director of Research, NICD
"Your Lucky Star"—Dr. Dorothy Siegert Lyle, Director of Consumer Education, NICD
Albert Johnson, Director of Trade Relations, NICD

12:00-5:00 p.m. Exhibit, Kiel Auditorium
1:00 p.m. Ladies' Luncheon and Style Show, Tiara Room, Park Plaza Hotel
6:30 p.m. Cocktail Party, NICD Alumni Society, De Soto Hotel
7:30 p.m. Dinner, NICD Alumni Society, De Soto Hotel

SATURDAY, FEBRUARY 9

9:30 a.m.-5:00 p.m. Exhibit, Kiel Auditorium
9:30 a.m. Convention Session, Gold Room, Jefferson Hotel
Presiding: W. R. Duncan, Secretary-Treasurer, NICD
Showing of Motion Picture
10:00 a.m. "From Greenhorn to Expert—on the Double"—Robert E. Cowie, Director of Management Engineering, NICD
"Are Wage Incentives for Big Plants Only?"—Richard A. Curtis, Curtis Laundry and Cleaners, Grand Rapids, Michigan
"Sales Ideas for More Sales Dollars"—Panel
Jerry Goldberg, D. O. Summers Company, Cleveland, Ohio
Elwood Hopping, The Pantorium, Dayton, Ohio
K. Bertucci, Zenith, Inc., Dallas, Texas
George Derbes, Derbes Cleaners and Hatters, Pottsville, Pennsylvania
2:00-4:00 p.m. Ladies' Cocktail and Bingo Party, Crystal Room, Jefferson Hotel
1:30 p.m. Convention Session, Gold Room, Jefferson Hotel
Presiding: T. E. Milholland, President, NICD
Showing of Motion Picture
2:00 p.m. "Harkness Eyes the World From Washington"—Richard Harkness, Chief of NBC's Washington Bureau
Annual NICD Business Meeting
Evening Banquet, Floor Show and Dance, Gold Room, Jefferson Hotel



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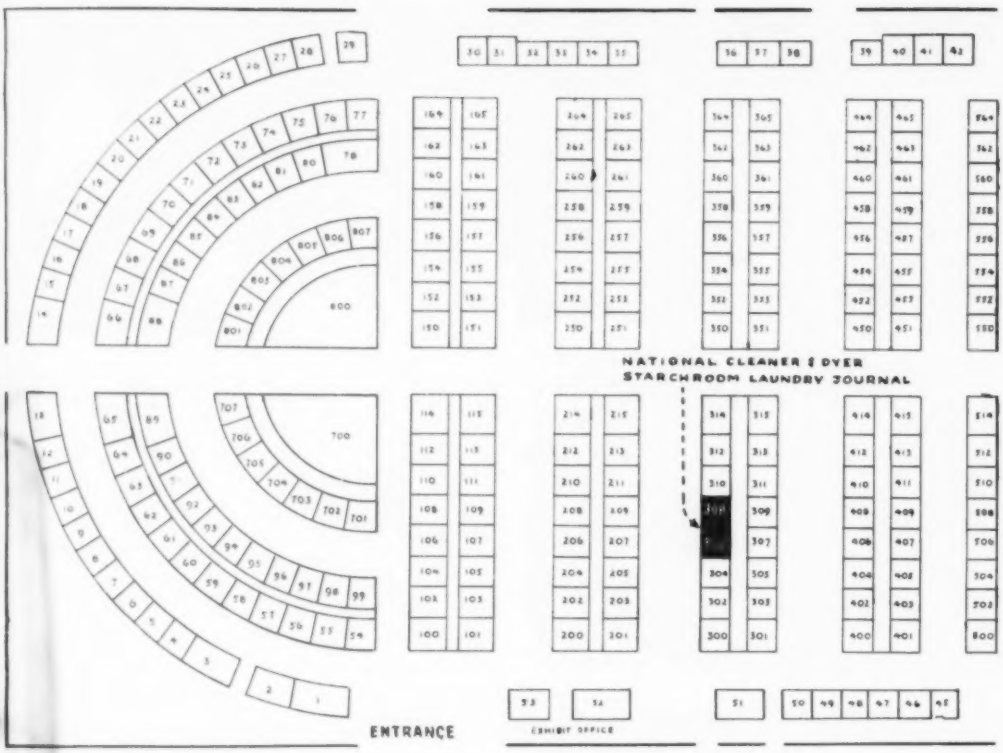
Kiel Auditorium in St. Louis, Missouri, site of 1952 NICD convention exhibits



EXHIBITOR	BOOTH NO.
Pittsburgh Tag Co., 1112 Galveston Ave., Pittsburgh, Pa.	97
Pre-Marked Strip Tag Co., 3232 India St., San Diego 1, Cal.	558
Procter & Gamble Distributing Co., P. O. Box 599, Cincinnati, Ohio	405
Prosperity Co., Inc., 701 Nichols Ave., Syracuse, N. Y.	212, 214
Quality Products Co., 5760 W. Grand Ave., Chicago, Ill.	4
Rassenfoss Bag Co., 1904 Grove St., Glenview, Ill.	86
Reliable Machine Works, Inc., 238 Eagle St., Brooklyn, N. Y.	112, 114
Reliable Steam Pressing Machine Service, Inc., 175 Bergen St., Newark 3, N. J.	263
Rema Corp., Ruby St., Norwalk, Conn.	508
Resilla Co., 2328 W. Nelson St., Chicago, Ill.	701
Riverside Mfg. Co., 4919 Connecticut St., St. Louis, Mo.	51
G. S. Robins & Co., 126 Chouteau Ave., St. Louis, Mo.	5
Root & Co., 11 Ionia Ave., S. W., Grand Rapids, Mich.	211
Rosenthal Mfg. Co., 5029 N. Kedzie Ave., Chicago, Ill.	702
L. A. Salomon & Bro., 216 Pearl St., New York, N. Y.	35
Saxe-Freeman Co., 1412 Harney St., Omaha, Neb.	307
Fred H. Schaub Engineering Co., 2110 S. Marshall Blvd., Chicago, Ill.	109, 111
G. R. Schmidt Co., 2815 Locust St., St. Louis, Mo.	355
Sec-O-Matic Corp., 55 LaFrance Ave., Bloomfield, N. J.	157, 159
Shedlov-Heinz Mfg. Co., 15 Wilder St., Minneapolis, Minn.	208
Shields Engineering & Mfg. Co., 277 E. 156th St., Cleveland, Ohio	451, 453
Southern Mills, Inc., 585 Wells St., S. W., Atlanta, Ga.	58
Speed Products Co., Inc., 37-18 Northern Blvd., Long Island City, N. Y.	92
Spix Products Co., 119 Dahlem St., Pittsburgh, Pa.	801
Stadham Co., Inc., 1825 N. 20th St., Philadelphia, Pa.	458
Standard Laundry & Cleaning Machinery Co., 6900 Maple Ave., Dallas, Texas	108, 110
Starchroom Laundry Journal, 304 E. 45th St., New York, N. Y.	306, 308
Lawrence M. Stein Co., 815 W. Van Buren St., Chicago, Ill.	104
Sterling Supply Corp., 1-35 Porter St., Philadelphia, Pa.	500
R. R. Street & Co., Inc., 561 W. Monroe St., Chicago, Ill.	158, 160
Stry-Lenkoff Co., 817 E. Market, Louisville, Ky.	84
Takamine Laboratory, Inc., 193 Arlington Ave., Clifton, N. J.	204, 206
Textile Marking Machine Co., 246 Walton St., Syracuse, N. Y.	201, 203
Troy Laundry Machinery Div., American Machine & Metals, Inc., East Moline, Ill.	301, 303
Unipress Co., Inc., 2800 Lyndale Ave., S., Minneapolis, Minn.	250, 252
United Brass Works, Inc., 1589 Atlantic Ave., Brooklyn, N. Y.	454
U. S. Hoffman Machinery Corp., 105 Fourth Ave., New York, N. Y.	100, 102
U. S. Marking Tag Co., Inc., 718 Atlantic Ave., Brooklyn, N. Y.	502
United Vacuum Appliance Corp., 150 S. Central Ave., Connersville, Ind.	53
Vic Cleaning Machine Co., 1313 Hawthorne, Minneapolis, Minn.	312, 314
Waldorf Paper Products Co., 2250 Wabash Ave., St. Paul, Minn.	460
Wallerstein Co., Inc., 180 Madison Ave., New York, N. Y.	504
Warco Laboratories, 1638 W. Vernon Ave., Los Angeles, Cal.	81
Western Laundry Machinery Co., 420 E. Tenth St., North Kansas City, Mo.	406, 408
Western Laundry Press Co., 619 S. Fifth West St., Salt Lake City, Utah	150, 152
Westvaco Chemical Div., Chrysler Bldg., New York, N. Y.	77
Whitehouse Products, Inc., 360 Furman St., Brooklyn, N. Y.	154
Wichita Precision Tool Co., 450 N. Seneca, Wichita, Kans.	251, 252
A. L. Wilson Chemical Co., 38 Passaic Ave., Kearny, N. J.	83
Wyandotte Chemicals Corp., Wyandotte, Mich.	357
L. A. Young Spring & Wire Corp., Star Service Hanger Div., 9200 Russell St., Detroit, Mich.	80

Come Visit Us... Find Out How You Can Offer Your Customers Better Dry Cleaning at Lower Cost...

We have the only *complete* dry cleaning program designed to get and hold more business for you! Nowhere else can you get such versatility in dry cleaning . . . a complete engineering service . . . a national advertising campaign to strengthen your local reputation . . . free newspaper ad mats . . . and merchandising kits to spark-up slump months. See us in St. Louis or write today for the complete facts on what Sanitone can do for you!

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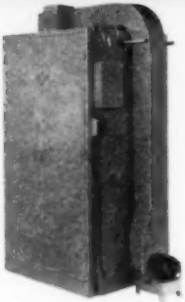
SANITONE DRY CLEANING SERVICE

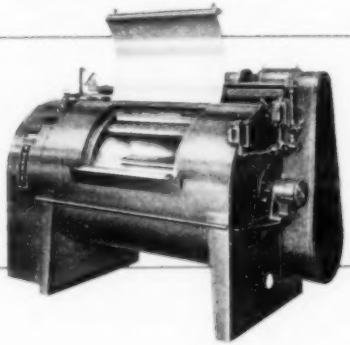
DIV. OF EMERY INDUSTRIES, INC., CINCINNATI 27, OHIO

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Engineered for Extra Profits



TRIPLEX MODEL "H" DRY CLEANING UNIT and MODEL "D-38" DRYING CABINET. **Underwriter approved for use with 140° Flash Solvent. Model "H" Unit includes continuous-flow, agitator-type Washer, Extractor, Pressure Filter, Solvent Storage Tank, Lint Trap and motor driven pump. Will clean 50 to 60 lbs. per hour. Economically priced; requires space only 5½ by 3½ ft. Model "M" Double Unit also available, with 2 Washers, 2 Filters, 2 Lint Traps and double-capacity Storage Tank. Model "D-38" Drying Cabinet has steam heater coils, motor driven fan, thermostatically controlled door lock, and automatic steam fire extinguisher.**



BUCKEYE DRY CLEANING WASHER **Built-in "*Double Action Cleansing*" forces solvent through load TWO ways—UP through double embossed, closely spaced cylinder perforations, DOWN through load from closed back, extra high, perforated ribs. *Greater solvent penetration gives finer, faster cleaning.* Sturdy, leakproof, steel tub with heavy, one-piece steel end frames forming tub heads. Flanged-seal tub door with bar lock and convenient supply door. Available direct or belted explosion-proof motor drive, and or elevated header belt drive. Eight sizes:—50 to 200 lbs. dry wt. capacities.**

AMERICAN O. T. DRY CLEANING EXTRACTOR. **A real mass producer. Takes full washer loads. High extracting efficiency saves solvent, speeds up production. Unusually low-slung steel curb for fast, easy loading and unloading. Precision-balanced Monel metal basket with Meehanite Metal bottom. Spindle operates in two heavy-duty, grease-lubricated roller bearings. Brake applied directly to basket bottom, for fast, smooth braking. Explosion-proof automatic brake and Timer. Explosion-proof motor drive, standard or Sanitone speed. 40", 48" and 63" sizes.**

ZONE-AIR DRY CLEANING TUMBLER **with Automatic Temperature & Cooling Control. Exclusive "*Zone-Air Drying Action*" puts air to work most effectively for fast, low-cost drying and deodorizing. Control automatically maintains preset temperature of drying air . . . reduces shrinkage. Automatically cools load . . . prevents heat creases. Automatically times tumbling cycle . . . eliminates over-runs. Tumbler furnished explosion-proof, single motor drive; also explosion-proof double motor drive, reversing. Capacities: 25, 35 & 45 lbs. dry wt.**

A Complete Line of Dry Cleaning Equipment

When writing to advertisers please mention The NATIONAL CLEANER & DYER

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AMERICAN CLEANERS EQUIPMENT CO.

TRUFORM Short Coat Finisher

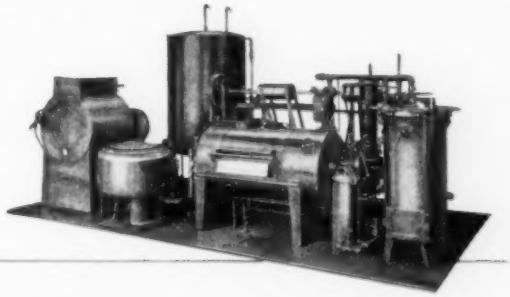
TRUFORM Long Coat Finisher

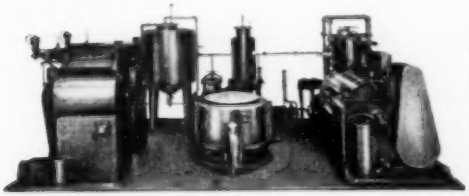
TRUFORM Ladies' Garment Finisher

TRUFORM STEAM & AIR GARMENT FINISHER

Drastically reduces finishing costs. Has 3 lightweight Forms, quickly and easily interchangeable on same base; or can be furnished with separate base for each Form. When inflated, Forms adjust themselves to any size and style garment. Ladies' Garment Form completely finishes most dresses without further touch up. Dresses remain right on hanger during finishing. Short Coat and Long Coat Forms (for men's & women's short coats, jackets and long coats) both revolve on base for fast, easy operation. Front and rear clamps hold coat in position . . . no buttoning or unbuttoning. Quick-action foot pedals for steaming and air-drying. Powerful, impeller-type fan, with fiber glass air filters. 4 fin-type heater coils.

ZURON DRY CLEANING UNIT For use with Stoddard solvent. Complete, compactly arranged cleaning room equipment selected in balanced capacities for fast, low-cost operation. Every machine a top-quality product, each equipped with all safety features. Includes BUCKEYE or GLOBE Washer, American Extractor with drain tank, ZONE-AIR Tumbler, and expertly engineered reclamation equipment. Furnished individually explosion-proof motor driven, or with explosion-proof, belted-motor group drive, as shown. Straight-line, "L" or "U" settings, with aboveground or underground storage tanks. Range from 22 to 190 lbs. dry wt. capacities.





NOEX DRY CLEANING UNIT *Underwriters Approved* unit for use where local restrictions require 140° flash solvent cleaning. Includes complete, compactly engineered cleaning room equipment, with machines and accessories that are proven, outstanding producers. Unusually wide range of sizes, in single or double-washer units. Individually motor driven machines, as shown, or belted-motor group drive. Straight-line, "L" or "U" settings, with aboveground or underground storage tanks. Capacities from 22 to 190 lbs. dry wt.

Write TODAY for free, illustrated catalogs describing the machines shown.

for Any Size Plant...

AMERICAN CLEANERS EQUIPMENT CO.

CINCINNATI 12, OHIO

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Quality is a way of doing business

Armour's New Improved Liquid Driclene is the detergent for quality cleaning!

Quality in drycleaning is the something *extra* that brings customers back again and again. And it takes a quality detergent to do quality cleaning.

Tests prove Liquid Driclene is better!

Yes, time after time, in every test against leading drycleaning detergents, LIQUID DRICLENE has proved its ability to do a *better* cleaning job. All detergents were tested under comparable conditions in drycleaning plants chosen for their varied conditions and cleaning problems.

Here's why Liquid Driclene is better!

Armour's LIQUID DRICLENE is easier, more efficient, more economical to use – because this product was designed for quality cleaning. LIQUID DRICLENE is scientifically produced to increase the number of pass-ups, cut down on costly hand spotting, reduce recleans and wet cleans, rinse easily and completely, keep filter pressure low, *take the dirt out of the load!*

Your staff will like Liquid Driclene!

Spotters like the feel and appearance of garments cleaned in this modern detergent – and so do the customers. LIQUID DRICLENE rinses easily and completely—clothes come out bright and clean on the first run. And because of its chemical composition, LIQUID DRICLENE can't cause the odors that cause complaints.

Call the Armour man today!

When you use LIQUID DRICLENE, you'll find out why more and more cleaning plants are using this *improved* product. The answer is that LIQUID DRICLENE is the quality detergent for quality cleaning.

Write today for your free copy of Armour's new "Liquid Driclene Manual."

ARMOUR

Industrial Soap Division

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THE FIRST CHOICE EVERYWHERE

From Coast to Coast and in Canada too...

SNA-PON Leads the Parade

the famous Sna-Pon Trouser Guard with the NON-SLIP Surface . . . for safe delivery

50% easier to thread—just slide on and press down!

Here's how Sna-Pon guards are better . . .
This patented guard is made non-slip in two ways—die-cut ends hold the guard firmly on the wire hanger, and a special non-slip surface holds the trousers safely on the bar. You can count on safe delivery to the customer. Sna-Pons fit any standard wire hanger—ready for use anywhere.

Here's how Sna-Pon guards save you money
Easier precision threading saves handling time. Firm patented construction resists breakage . . . and non-slip surface eliminates need for re-pressing or extra handling. Customers are enthusiastic—preference for Sna-Pon is firmly established.

Sna-Pon guards are packed for easy storage
Each guard is approximately ½" round. Packed 2500 to the carton, shipping weight 40 lbs. Carton size is 24" x 16½" x 15½" for compact storage—a full supply takes little space.

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PLACE YOUR ORDER NOW

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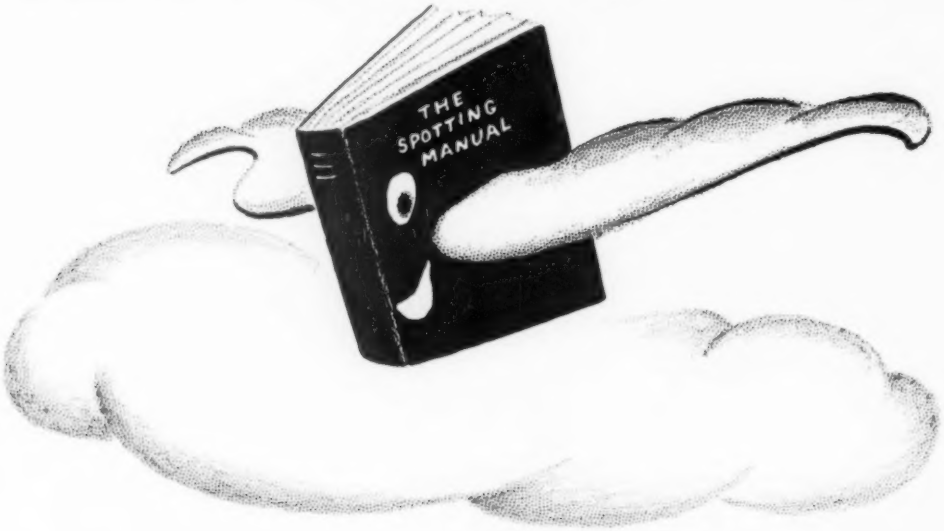
and now . . . *IT TAKES TO THE AIR!*



One of the strongest appeals of air travel is its cleanness--and that goes for the plane furnishings, too. To set up procedures for keeping its plane interiors spotless, a leading airline has ordered

THE SPOTTING MANUAL

of the

DRYCLEANING INDUSTRY

Revised Edition

by ALLEN O. FLIGOR

and PAUL C. TRIMBLE

But there's nothing flighty about the down-to-earth contents! Directions for safe removal of spots and stains, for wetcleaning, bleaching and related procedures, are completely practical—easy to understand and easy to follow.

There's nothing high about the price of the Spotting Manual, either . . .

ONLY $5.00

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the TOUGHEST job in the plant... is now the easiest!

Because it does away with a laborious cleaning operation, makes big savings in direct labor costs, reduces finishing costs and contributes to better cleaning and higher profits... the **Hopkins SCRUB-O-MATIC Garment Scrubber** has literally taken dry cleaners by storm. From coast-to-coast it is enthusiastically endorsed.

One cleaner reports a 50% saving in direct labor costs plus greatly improved quality. Another cleaner tried one—then bought ten!

Anyone can operate the **SCRUB-O-MATIC.** Use it on the dry side or wet side. Takes less than 5 square feet of floor space.

Ask your own jobber about the **Hopkins SCRUB-O-MATIC,** or use the coupon below for complete information.

Just dip the garment in tank of solution

And pass through SCRUB-O-MATIC brushes

Hopkins EQUIPMENT CO.
Hatfield, Pa.

HOPKINS EQUIPMENT CO., Hatfield, Pa.
Gentlemen:
Please send me full information and prices on the new Hopkins SCRUB-O-MATIC Garment Scrubbing Machine.

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COMPANY _____
ADDRESS _____
_____

SEE US AT BOOTH 29—N.I.C.D. EXHIBIT

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The *National* Adding Machine

with time-and-effort-saving features never before combined on ONE machine!

1. Automatic clear signal. Gives automatic printed proof of whether or not the machine was clear when the operator started to use it.

2. Automatic space-up of tape. Spaces tape to correct tear-off position when total is printed. Saves time, effort, paper.

3. Automatic credit balance. Actual minus totals are automatically computed, and printed by a single touch of the total bar. Prints in red, with CR symbol.

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5. Easy-touch key action. Depression of keys is practically effortless, yet sufficient to tell when you have depressed a key. Tension is uniform 3½ oz.

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7. Large answer dials. Always show the accumulated total in large numerals. Permit use of machine without tape.

8. Heavy-duty construction. Compact for desk use. Portable enough to move about, yet rugged enough to carry on through long years of hard service.

These National Adding Machine features can mean money to you . . . in time saved . . . in added accuracy . . . in more work done with less effort. Prove it in your own office, *on your own work.*

Call the local National Cash Register Company's office, or the dealer or distributor for National Adding Machines. Arrange for a revealing demonstration *now.*

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Drycleaners

build your shirt business on Quality, Quick Service and Dependable, Low-Cost Production.

Be guided by PROSPERITY'S experience and planning!

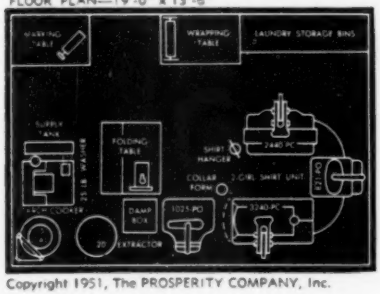
PROSPERITY, leader in "packaged unit", high-efficiency shirt finishing departments and shirt finishing stores for drycleaners, can adapt set-ups to the space that you can make available.

Phone your Prosperity representative or wire factory for complete information on "packaged unit" set-ups.

PROSPERITY STANDARD 2-GIRL SHIRT UNIT

The standard of excellence in high production, quality shirt finishing. Delivers quality shirts and profits by maintaining customer satisfaction, and high price level. Prosperity shirt-finishing presses have many exclusive refinements that have always made them the preference of experienced laundrymen.

SHIRT DEPARTMENT
FLOOR PLAN—19'-0" x 13'-6"



PROSPERITY 25-POUND FULLY-AUTOMATIC INDIVIDUAL PRODUCTION WASHER

Delivers 60 shirts per hour. Fast, thorough rinsing that completely eliminates any soap residue that could cause "yellowing" of shirts on pressing machines.

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AUTOMATIC PRECISION PRODUCTION TOOLS FOR LAUNDRY AND DRYCLEANING PLANTS

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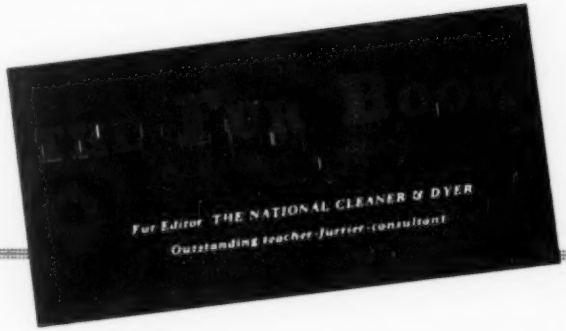
"Answers a very definite need!"

That's what an outstanding laundry operator says about

Wondering what THE FUR BOOK can do for you?



Here are some of the answers from leaders in your own industry:

For information . . . for problems

The Fur Book we bought from you a short time ago has proved very satisfactory. It has been most helpful. We have been in the fur cleaning, storage, repairing and restyling business for a number of years, and we consider your book the most satisfactory for all information and problems.

R. B. Nichols
Danville Laundry & Dry Cleaning Co.
Danville, Kentucky

For reference . . . for teaching

We bought two copies of your "Fur Book" which is available as a reference book for those of our divisions which have fur cleaning and storage vaults. We find the book is very useful for teaching our superintendents and employees the different types of furs and how to handle them. I certainly think the book as a whole answers a very definite need.

Robert T. Baxter
Baxter Laundries Corporation
Grand Rapids, Michigan

Increase the profits from your present fur service . . . or get into this moneymaking sideline! It's a "natural" for the reputable drycleaner or laundryowner.

Everything you need to know for this profitable business you'll find in THE FUR BOOK

304 East 45th Street
New York, 17, N. Y.

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Please send me my copy (postage paid) of THE FUR BOOK by David G. Kaplan.

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Cleaning, glazing, dyeing . . . operation of fur machine . . . cutting, sewing, nailing . . . repairing, remodeling . . . how to make fur accessories and complete garments . . . common problems and how to solve them . . . how to build a fur business . . . how to estimate costs.

***All in one complete, practical, clearly written and generously illustrated volume—for only* $7.50!**

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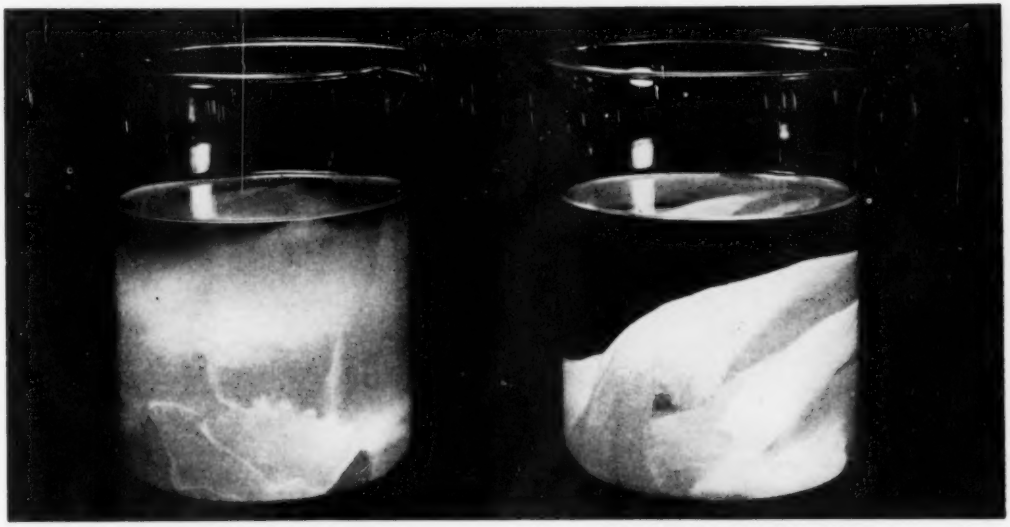
NOW YOU CAN RINSE YOUR GARMENTS IN CLEAN, CLEAR SOLVENT!



SYNTHETIC DETERGENT **NU-WAY FILTER SOAP**

Above is a simple, practical demonstration that shows exactly how NU-WAY Filter Soap works . . . and gives all the real soap action necessary for good cleaning.

Equal amounts of the same solvent were placed in both beakers. In the left beaker was put 1% of a synthetic detergent with moisture. The detergent quickly dispersed through the solvent, giving a cloudy, milky-like effect. When the cotton cloth was placed in it and thoroughly stirred to simulate a washer, the solution remained cloudy even after the cloth was removed.

In the right beaker was placed 1% of NU-WAY Filter Soap, with moisture added. A similar piece of cotton cloth was then immersed in the beaker and the solvent thoroughly stirred to simulate a washer. The solvent in this beaker became clear.

It is obvious that the detergent remained in an inefficient and useless suspension. With NU-WAY Filter Soap the test piece adsorbed the soap where it is effective during the soap run.

NU-WAY Filter Soap and soil are completely removed during filter operation assuring a clean, clear solvent rinse.

BUCKEYE NU-WAY Filter Soap

THE DAVIES-YOUNG SOAP COMPANY, Box 995, Dayton 1, Ohio

Manufacturers of Soaps and Specialties Since 1844.

NCD-252

Please have your local representative contact us ☐.
Send further information on NU-WAY Filter Soap ☐.

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Night life.. at Stauffer's . . . .

STAUFFER
CARBON TETRACHLORIDE
99.99% PURE

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SPECIALTY CARBON TETRACHLORIDE
BASE DRYCLEANING MIXTURE

● Stauffer, not unlike other chemical manufacturers, is doing its utmost to keep up with the unprecedented demand for its products. Stauffer's plants are working day and night to up production of its basic chemicals for industry.

Stauffer CHEMICALS SINCE 1885

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PRODUCES MORE

105-120 Lbs./hr.

Manitowoc

More Cleaning Per Hour
Less Cost Per Pound

You get *both* with a Manitowoc. More cleaning per hour because a Manitowoc tumbles while it washes. There's no waste of time — your machine is working on "both barrels" every minute. That's why you can produce more, and profit more with a Manitowoc.

Double drum design is the real answer to faster and higher production — it makes "on-the-premises" cleaning practical and profitable. It gives you finer cleaning — faster cleaning — more economical cleaning.

If you are interested in a synthetic machine that is built to the highest standards, with all the most advanced features, yet is priced lower than any machine of comparable capacity, get complete details on Manitowoc — the best investment you can possibly make.

Plus ALL *these features*

- ★ CONTINUOUS DISTILLATION
- ★ CONTINUOUS FILTRATION
- ★ DUAL-LEVEL VENTILATION
- ★ SLUDGE AGITATOR
- ★ BIG 36" x 30" RECOVERY TUMBLER
- ★ UNDERWRITERS LABORATORY APPROVED

Manitowoc *Synthetic*
PERCHLOR DRY CLEANING UNIT

MANUFACTURING DIVISION of
MANITOWOC SHIPBUILDING CO.
512-16th St.,
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SEE IT ON DISPLAY
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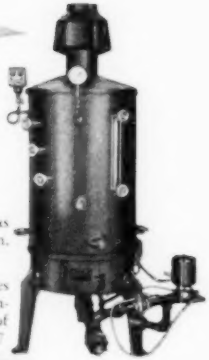
the Answer to that steam problem may be one of these "steamboilerplants"

For every purpose, from neighborhood press shop to large cleaning plant, there's a gas-fired or oil-burning, vertical or horizontal McKee Automatic "Steamboilerplant" to provide fast steam economically. Only a few of the many types are shown here.

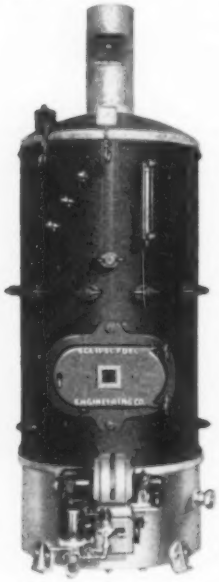
Desirable Territory open for Engineering Sales Representatives.



Type "D" "Steamboilerplant"
Gas-Fired; Gas-Designed

This complete factory-built unit has many unusual features; rapid circulation, complete combustion, seamless shell.

Available in sizes ¾ to 7 H.P., pressures up to 500 lbs., Standard and Push-Button, five models to suit all types of applications. Write for Bulletin A-107



Eclipse

Mc Kee Eclipse HIGH PRESSURE STEAM BOILERS

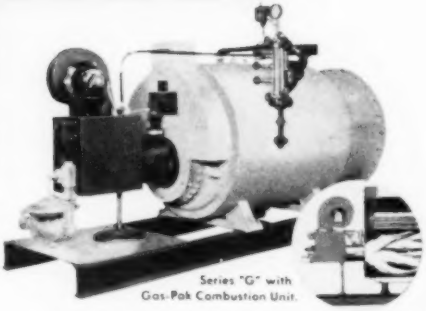
Oil-Burning Automatic Steam Boiler

Where either gas or oil-burning unit is preferred, this complete unit is recommended. Has automatic steam pressure control, automatic starting and flame failure protection. Write for Bulletin A-1000. Available in sizes ¾ to 75 H.P. and pressures up to 250 lbs.

New Gas-Fired Super-Matic Scotch Boiler

This Super-Matic "Steamboilerplant" has demonstrated its economy and highly efficient operation in all types of industrial installations. A "Complete Package", ready to connect up and operate.

Available in nine different sizes, 12 to 100 H.P., **for gas, for oil or for combination gas and oil,** all in accordance with ASME code requirements. Write for Bulletin A-104.



Series "G" with Gas-Pak Combustion Unit.

Let us help you on unusual steam boiler applications

REPRESENTATIVES IN ALL PRINCIPAL CITIES

Eclipse Fuel Engineering Company
1155 Buchanan Street, Rockford, Illinois
McKee Eclipse

5574R ***Now in our new, modern building***

THE MOST COMPLETE LINE OF GAS-FIRED INDUSTRIAL EQUIPMENT

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The drycleaning detergent that

Keeps Customers Happy!

Finer

FBC utilizes moisture normally present in garments to increase cleaning action of solvent...to give faster, FINER cleaning results.

Brighter

FBC helps bring whiter whites; sharpens and makes colors far BRIGHTER.

Cleaning

Here's low cost CLEANING. Only ½ oz. of FBC is needed per 10 lbs. of clothing. Available through your former "Ovalclene" distributor.

"This product is made in accordance with the improved formula of the dry cleaning detergent formerly manufactured by the DuPont Company and sold under the DuPont trademark 'Ovalclene'. However, the Fry Brothers Company takes full responsibility for the quality of the product."

dry cleaning DETERGENT

Available in gallon jugs or packed 4 jugs to a carton. Free measuring cup with every order.

CONTACT YOUR DISTRIBUTOR FOR FBC TODAY

THE FRY BROTHERS CO.
SOAP MANUFACTURERS SINCE 1896
1728-46 DANA AVENUE CINCINNATI 7, OHIO

THE FRY BROTHERS CO.
1728 Dana Avenue, Cincinnati 7, Ohio

Gentlemen: Please send me _____ (QUANTITY) gallon jugs of FBC Dry Cleaning Detergent at $9.50 per gallon or $9.00 per gallon in case lots of 4.

NAME OF FIRM _____

ADDRESS _____ STATE _____

CITY _____

YOUR NAME _____

DISTRIBUTOR _____

Meet us in St. Louis at the NICD Convention, Booth 310.

ORDER FBC TODAY

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Let's not forget our fundamentals. When you clean clothes, you remove solid soil, perspiration, body secretions, food stains, and all sorts of odor-forming organic matter. That organic matter dissolves into your solvent to build up its fatty acid content. True the amount of fatty acid build-up will vary with the type of loads you run and the cleaning method you use. But you can't clean clothes without building up fatty acid in your solvent — regardless of what solvent or soap you use.

So what?

Fatty acid build-up means odor troubles, re-dos, arguments and dissatisfied customers—that take a big bite out of your "take-home" profits. Always keep these simple truths in mind.

1. Filtration removes solid soil—but only MAGNESOL* or distillation can remove dissolved odor-forming matter from dirty solvent.

2. MAGNESOL is the simple, quick, work-saving way to "sweeten" and clarify dirty solvent. It adsorbs—literally pulls out—the odor-forming products while it simultaneously filters out solid soil.

3. MAGNESOL is inexpensive because it saves labor; saves steam; keeps solvent clear, "sweet" and active longer; ends solvent-odor trouble once and for all.

Your jobber has MAGNESOL. Order some today . . . say goodbye to solvent odor trouble tomorrow.

*MAGNESOL is the registered trade mark of Food Machinery and Chemical Corporation for its brand of magnesium silicate adsorptive powder.

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FOOD MACHINERY AND CHEMICAL CORPORATION
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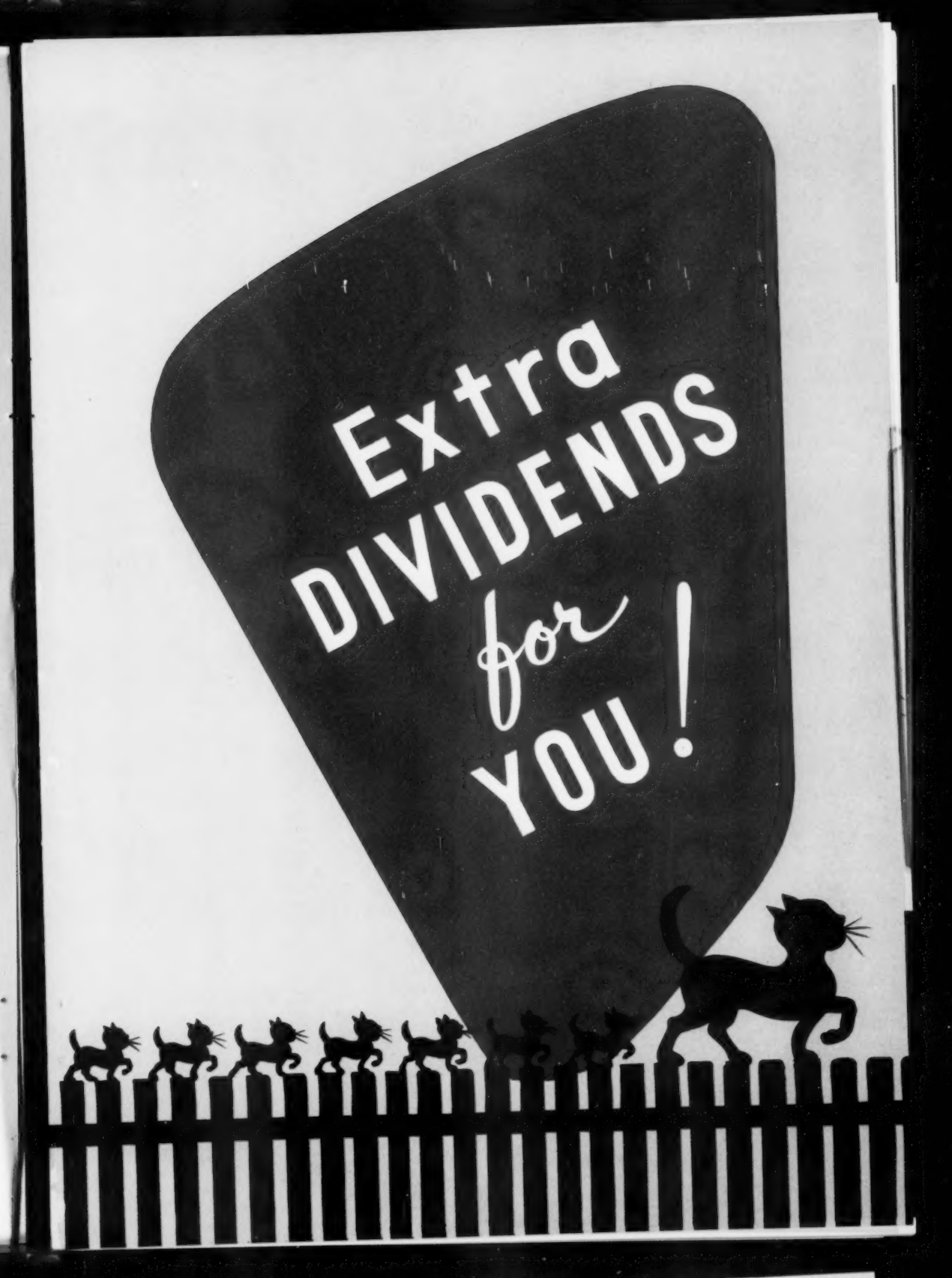

Extra
DIVIDENDS
for
YOU!

with MOTH SEAL THE *Best*

Lincoln Bag Company

MAKERS OF DEPENDABLE GARMENT BAGS AND MOTH SEAL STORAGE BAGS
4200 WEST SCHUBERT AVENUE, CHICAGO, U.S.A.
TELEPHONE ALBANY 4200

To: DRY CLEANERS AND LAUNDRYMEN

Re: "EXTRA DIVIDENDS FOR YOU"

Our 1950 Sales figures on "Moth Seal" Storage Bags indicated that a value of Twenty Five Million ($25,000,000.00) dollars in extra cleaning services came to plants using them.

"Moth Seal" Storage Bags were never intended to be a "cure all" against Moth Damage -- but, used in accordance with directions they will protect your services -- and your offering them in conjunction with your regular storage vault and mothproofing services will bring in business you have never had before.

It is possible that you already use "Moth Seal"....but in any case we would like to suggest that you consider our new program. Besides, "Moth Seal" costs no more than ordinary storage bags.

"Pay-off" interest is developed through use of our free advertising help, ahead of the regular season. Therefore, we've made it convenient for you to obtain this help through our distributors by merely indicating the amount of bags you will need. We'll see to it that the advertising material is delivered and that your "Moth Seal" order is entered for delivery when you need it.

Our distributors are carefully selected for their outstanding service to your industry and they, like ourselves, are interested only in helping you build extra success for your firm -- knowing full well that any improvement will reflect itself in sales.

Yours very truly,
LINCOLN BAG CO., INC.

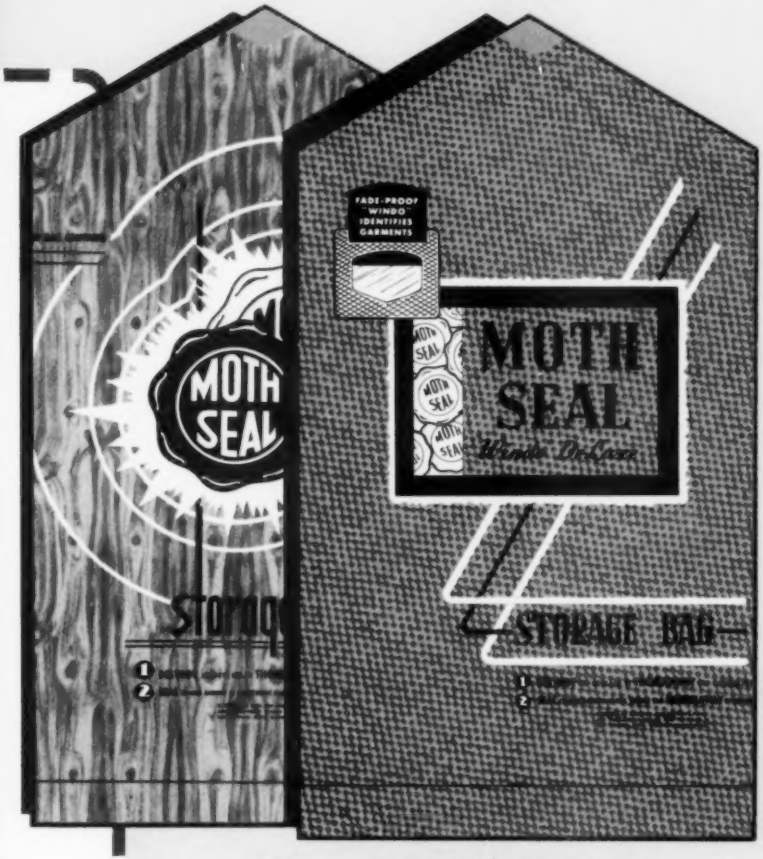
A R Kohl

President

WRKohl/mk

P.S. Our entire production is made up of better packaging for cleaned or laundered clothing.

STORAGE BAG EVER MADE!



Out Front

NOT BY CLAIM . . .
BUT BY COMPARISON

BEAUTIFUL APPEARANCE

Two styles: deluxe style featuring new design that closely resembles expensive tweed fabric; standard style in genuine cedar grain finish. Beautiful in any closet.

PATENTED-TRANSPARENT FADE-PROOF WINDO

Excludes light—prevents fading — permits easy identification of contents — stays in place, and conforms to shape of bag. No other storage bags have *this* feature.

DOUBLE-SEALED

Double reinforced lock seal top adds strength and stability, and is positive assurance against moth entry. Double sealed gummed tape bottoms.

THERE IS ONLY ONE *Genuine* MOTH-SEAL

2 STYLES

STANDARD CEDAR GRAIN style made without Windos.

DELUXE WINDO style equipped with patented Fade-Proof Windo (the only Windo used on storage bags that positively excludes all light to prevent fading).

Both styles furnished in extra width in 42, 54, and 60 inch lengths for garments, and in a special 20¾ x 30 x 4¾ size—for blankets, pillows, draperies, etc.

MOTH SEAL STORAGE BAGS ARE AVAILABLE THE YEAR AROUND FROM JOBBERS IN YOUR SALES AREA

FOR FREE SAMPLES AND INFORMATION WRITE

LINCOLN BAG CO., Inc.

4200 W. SCHUBERT AVE.
CHICAGO 39

OUR JOBBER WILL SUPPLY *FREE* ADVERTISING HELPS TO MAKE THIS PROFITABLE SERVICE KNOWN

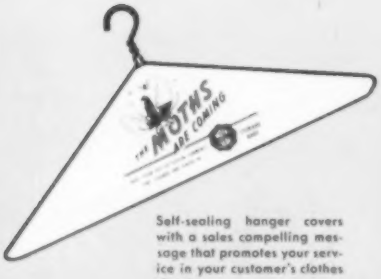
Attention arresting, full color easel display cards for your counter or window.

A generous supply of advertising helps are available to you without charge to help you promote your Moth Seal service. Each is designed to do a real selling job for you—it will pay you to put them to work.

Pocket inserts that tell the story of your Moth Seal service every time you deliver a garment.

MOTH SEAL

Gives your customers
Protection where it counts



Self-sealing hanger covers with a sales compelling message that promotes your service in your customer's clothes closet.

LINCOLN
BAG COMPANY, INC.

4200 W. SCHUBERT AVE. CHICAGO, 39

PRODUCE MORE WITH YARWAYS...

Is higher production your aim?

Then Yarway is your steam trap. Best steam trap performance requires condensate drainage *plus*—

1. **Air and gas removal.**
2. **Velocity scrubbing of condensate from heat transfer surfaces.**
3. **Keeping highest average temperature in the equipment.**

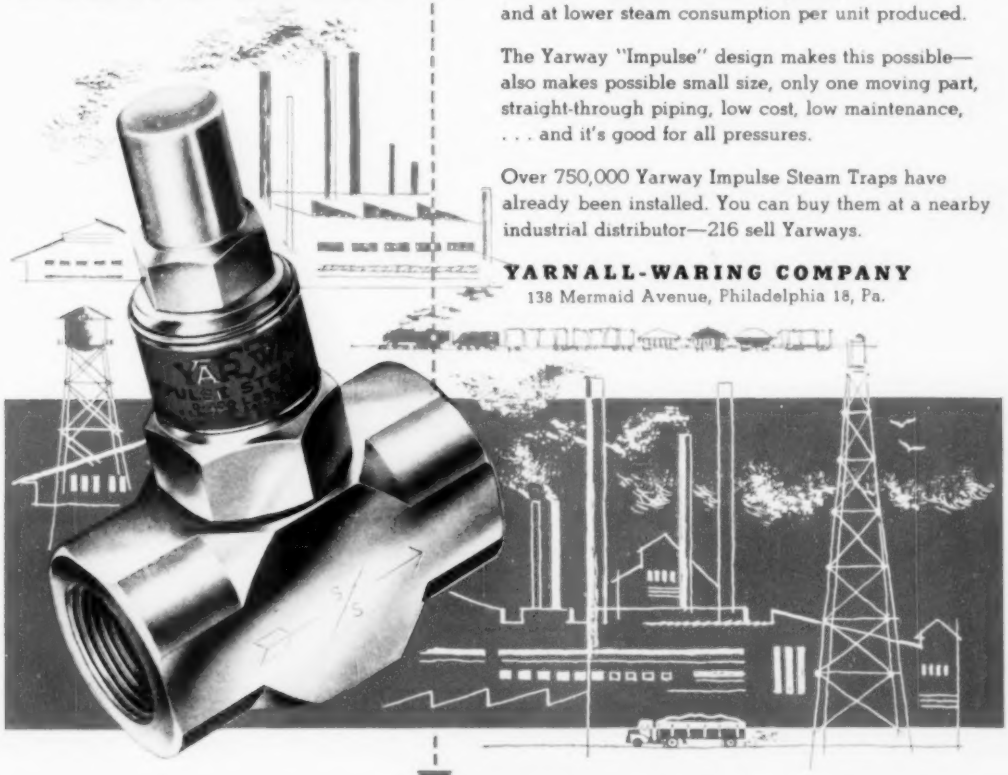
Yarway Impulse Steam Traps do all this, *sending the most premium B.T.U.'s at top temperature into your process or product.*

That's why equipment drained with Yarways gets "hotter, sooner" . . . why better quality and higher production rates are so often reported, and at lower steam consumption per unit produced.

The Yarway "Impulse" design makes this possible—also makes possible small size, only one moving part, straight-through piping, low cost, low maintenance, . . . and it's good for all pressures.

Over 750,000 Yarway Impulse Steam Traps have already been installed. You can buy them at a nearby industrial distributor—216 sell Yarways.

YARNALL-WARING COMPANY
138 Mermaid Avenue, Philadelphia 18, Pa.



FREE OFFER
Don't take our word for it. Test Yarway's production advantages in your own plant, without cost or obligation. Drop us a card. A trial trap will be delivered promptly.

YARWAY the steam trap designed with production in mind

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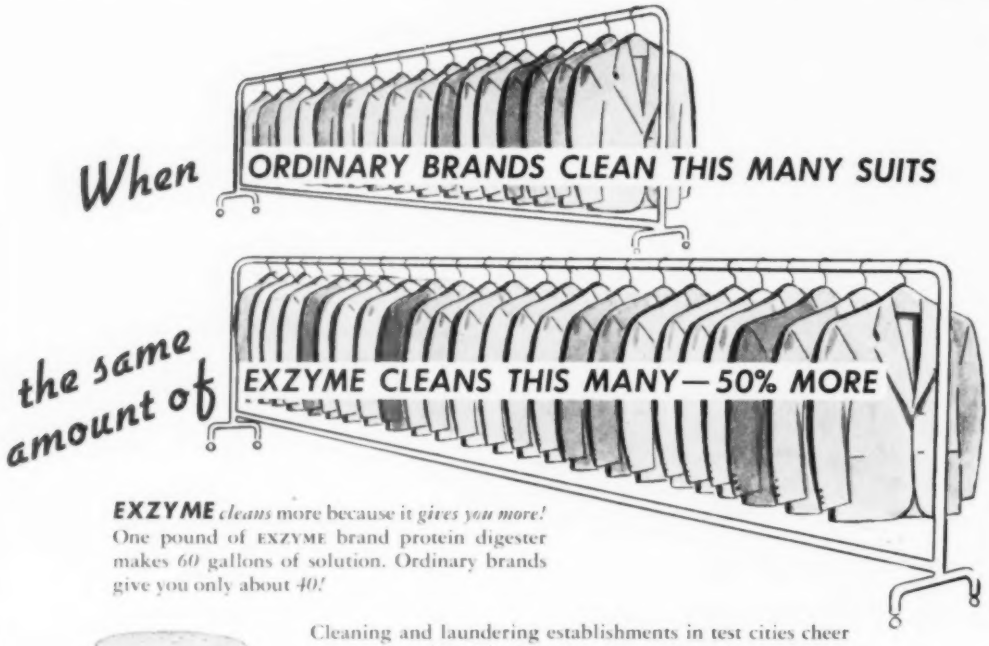
EXZYME Brand Protein Digester

Gives you 50% More for Your Money



EXZYME *cleans* more because it *gives you more!* One pound of EXZYME brand protein digester makes *60* gallons of solution. Ordinary brands give you only about *40!*

Cleaning and laundering establishments in test cities cheer EXZYME results! They've proven to themselves—EXZYME gets clothing cleaner . . . *faster!* Try EXZYME yourself! You'll save time—save money—and do a better job!

A QUALITY PRODUCT—Made by Pabst

10 GREAT EXZYME ADVANTAGES!

1. **Exzyme Stays Fresh!** The miracle digester smells sweet—stays fresh—leaves no sour *smell* on garments or in your plant!
2. **Longer Life!** Remains highly active in solution for 24 hours or longer.
3. **Faster Acting!** Great on tough spots like coffee, beer, chocolate, blood, egg, etc.
4. **In Bath, On Board or by Stock Solution!** Works rapidly and efficiently regardless of manner used.
5. **Power-Packed!** Gets stains that no other digester will—on board or in bath.
6. **Easily Flushed!** Can be quickly and completely flushed from garments. Leaves no trace.
7. **General Cleaning!** Exzyme cleans those dirty necklines and hemlines. Takes out ground-in soils.
8. **Safe!** For fabrics as plain warm water.
9. **Dissolves Instantly!** Exzyme dissolves quickly . . . thoroughly. One teaspoonful per gallon is all you need.
10. **Works in Any Water!** Exzyme works efficiently in hard or soft water.

Get Exzyme Brand Protein Digester by the Pound or the Case from Your Local Jobber. If Your Jobber Does Not Stock Exzyme . . . Write To:

PABST SALES COMPANY

Industrial Products Division

221 North La Salle Street • Chicago 1, Illinois

Copr. 1951 Pabst Sales Company, Chicago, Ill.

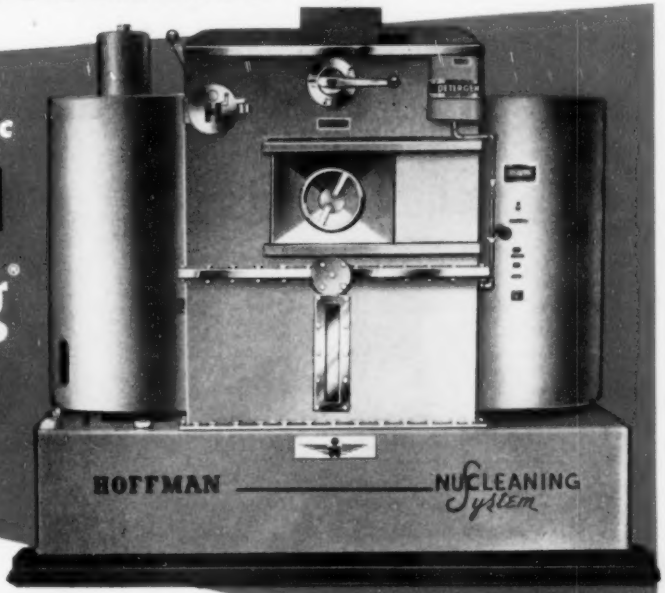
When writing to advertisers please mention The NATIONAL CLEANER & DYER

HELPS YOU WAIT ON MORE CUSTOMERS

...instead of waiting on a machine!

the fully automatic

HOFFMAN Nu-Cleaning® System



Provides Superior On-Premises Cleaning with Low Labor Cost and Minimum Attention for Modern, Main Street Merchandising

Think of the many jobs that could be done in the time now spent tending non-automatic cleaning systems. There's sorting, pressing, spotting, repairs — all services which will bring back more customers. And with "Nu-Cleaning" you can do finest quality, on-premises cleaning with solvent cost kept low. A built-in reclaimer saves solvent on every run. Patented shock-absorber construction avoids need for special foundation or bolting down. You can install it anywhere.

An invitation to owners of Old-Style, Open-Type Non-Automatic Cleaning Units...

INVESTIGATE OUR LIBERAL TRADE-IN ALLOWANCES

TOPS IN VALUE ...SINCE 1905

Hoffman

U. S. HOFFMAN MACHINERY CORP. 105 FOURTH AVENUE, NEW YORK 3, N. Y.

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WHAT *is the* RELIABLE *answer to* FUR *Cleaning and Storage?*

1. PLANNED Fur Cleaning?

A "RELIABLE" Fur Cleaning Installation means WOOD-LINED Fur Drums (a size to meet any requirement), Vac-u-Beater Tables and your choice of Glazing equipment. IT COSTS LESS TO BUY THE BEST . . . when it's "RELIABLE"!

2. INDIVIDUALIZED Fur Storage?

We will design and plan *your* FUR and Garment Storage Vault *specifically* to suit your needs—regardless of size—from blueprint to completion. There is no guesswork about it since two generations of leadership are your "RELIABLE" guarantee of satisfaction.

3. "PACKAGE UNIT" Fur Storage?

Here is a compact, *economical* installation—an *all-purpose* vault conditioner to cool, dehumidify, fumigate and ventilate any size storage vault. Remember, that "RELIABLE" was the originator of this modern unit that will help you take advantage of storage profits at once.

The "ANSWER MAN" . . . *Mr. Harold Friedman,*

General Sales Manager, (*pictured above*), will gladly give you the CORRECT answers to your FUR Cleaning and FUR Storage problems, *without obligation.*

Send us the answer,

RELIABLE . . .

- ☐ for FUR Cleaning
- ☐ for Individualized Storage
- ☐ for "Package Unit" Storage

Name _____

Firm _____

Address _____

City _____ Zone _____ State _____

☐ *Send a Field Representative*

YOU CAN RELY ON

RELIABLE

Reliable FUR Storage Equipment Co.

DIVISION OF

RELIABLE MACHINE WORKS, Inc.

231 EAGLE ST. BROOKLYN 22, N. Y.

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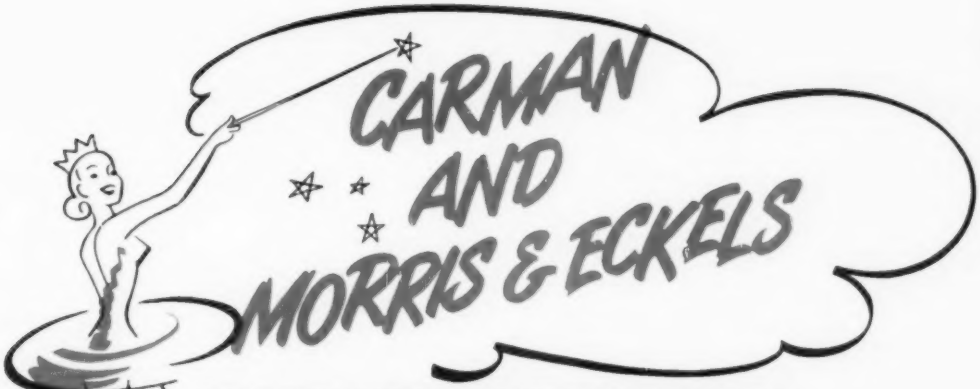

THESE TWO NAMES ARE YOUR ASSURANCE OF...

- ***Tested* and *Proved* Laundry & Dry Cleaning Supplies**
- **Consistent *service* to the interests of the Laundry and Dry Cleaning Industries**

Our Representatives are interested in YOUR supply and equipment problems . . . they are Qualified by training and experience to work with you in creating more efficient and economical operations . . . Call on them for cooperation at any time . . . it will be extended gladly at no obligation.

LAUNDRY SUPPLIES

ANTISEPTIN—*The Safe and Certain Laundry Germicide*

ALKALIS—Pensal; Metso; Metso 99; Cowles Detergent; Wyandotte Products; Prosperity Sodas; Soda Ash, Caustic Soda.
APRONS FOR IRONERS—Carman's Prosperity Apron Ducks in customary widths and weights—look for the purple stripe.
BLEACH—Sodium Hypochlorite; Perchloron; HTH; Pittchlor; Penozone; Chloride of Lime.
BLUES—Carman's Prosperity Blues—complete line; Erusto Blues; Escomo Blues.
COVER CLOTH AND DUCK—Oriole Coverings (medium weight); Carco Extra Duck (heavy weight), in widths to fit any ironer—look for the purple stripe.
FLANNELS—Carco Flannel—54" x 72"; Carvel Nylon Blanket Felts; Ready-made press flannels.
HAMPERS—the famous "Lone" and "Meese" lines—all styles and sizes, with or without casters.
NETS—Cotton Carmonets; Nylon Nets. All sizes and colors.
PADDING—Red Edge Knitted Cotton Padding; Resilla Steel Wool Pads for Presses. Cut and Bound Press Pads; Marvel Pads.
PRESS COVERS—"Tailor-Made" Cotton and Nylon Covers.
SOAPS—Procter and Gamble's complete line; Ivory Powder and Flakes; Amber Powder and Flakes; Saratoga; Brax; Orvus Paste; Ozonite and Cold Water Ozonite; Calice; Synthetic detergents.
SOURS—Carco Sours: Carcobrite, Extra, Special, Carcocide, Carco DC, Carco Tint; Erusto Sours, Special and Regular; Erustocide; Wyandotte Sours. A complete line of "safe-to-fabric" sours.
STAIN REMOVERS—Carman's Carco Line; Oil-Go, Yellow Specific, Clear-O; Caled; Davies-Young; Erusto; Street; Wilson.
STARCH—Keever's Satinette and Wheat-n-corn; Huron's Velvet Rainbow and Wheatex. Other brands for special purposes.

DRY CLEANING SUPPLIES

BRUSHES—Tag Line Spotting; Scrub; Velvet; Cording and Napping; Others.
BUTTONS—Tailor's Plain and Mottled—Suit, Vest, Overcoat, Pants and Shirt.
CHEMICALS—A complete line of high quality products for every purpose.
DYES—American Aniline—Union; Celanese; Neutral; Direct; Acid.
FILTER AIDS—DC Filtrol; Hyflo Supercel; Chlor-o-Cel; Darco; Flobrite.
GARMENT BAGS—Plain or Printed; Moth-Seal & Sanitex Storage; Mehl Cellophane and Plastic Bags.
HANGERS—Carco Wire; Waldorf Hang-Rite; Neverslip Tie Hangers and Bags.
PAPER SPECIALTIES—Trouser Guards; Tissue; Hanger Shields and Protectors.
SOAPS & SPOTTERS—Carco Specialties; Caled; Davies-Young; Eaton; Erusto; Spix; Street; Others.
SOLVENT—Dow Synthetic—Dowclene; Perchlorethylene; Carbon Tet.

RUG CLEANING SUPPLIES

CARCOSUDS RUG & UPHOLSTERY SHAMPOO
STRIPPERS—STAIN REMOVERS
DETERGENTS
DUODEX CARPET ANTISEPTIC
SIZINGS—RUG SEALER
SOLVENTS

MECHANICAL SPECIALTIES

BINKS SPRAYING EQUIPMENT
BISHOP LAUNDRY & CLEANING EQUIPMENT
BOCK EXTRACTORS
CARMAN FUR CLEANING EQUIPMENT
CERTIFIED ROTOBRUSH EQUIPMENT
CISSELL EQUIPMENT
DRYCO IRONS & APPLIANCES
EXCELSIOR EQUIPMENT
GLOVER SPECIALTY EQUIPMENT
HOPKINS CURTAIN STRETCHERS
HUEBSCH TUMBLERS & DRYERS
KEY TAG IDENTIFICATION SYSTEMS
PELLERIN EXTRACTORS
RESILLO STANDARD & FOAMONEL PADS
ROSENTHAL LAUNDRY SPECIALTIES
SCHAUB BOILER RETURN SYSTEMS
SMITH SPECIALTY EQUIPMENT
U. S. HOFFMAN PUFFERS & FINISHERS
WHIRLWIND ELECTRIC FANS

THE MORRIS & ECKELS CO.
A Wholly Owned Subsidiary

Executive Office:
CARMAN & CO., INC.
70 Summit St., Brooklyn 31, N. Y.

WE MEET EVERY REQUIREMENT FOR LAUNDRY, RUG CLEANING, AND DRY CLEANING EQUIPMENT AND SUPPLIES WITH PRODUCTS DEVELOPED BY OURSELVES OR WITH PROVED LEADERS PRODUCED BY FOREMOST MANUFACTURERS.

ATLANTA · BALTIMORE · BIRMINGHAM · BOSTON
CHICAGO · CINCINNATI · CLEVELAND · DENVER
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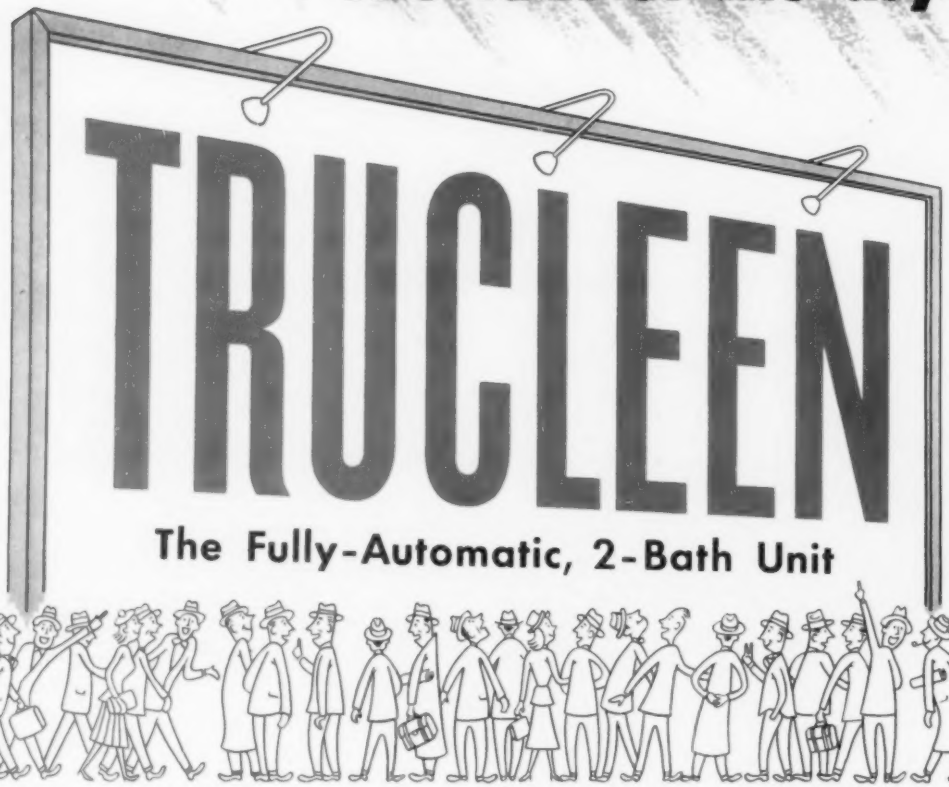
The talk of the dry



FOR USE WITH *SUPER-*

Here's the dry cleaning unit you've been waiting for! TRUCLEEN, the original Fully-Automatic, 2-Bath Stoddard Solvent Unit... ready to give you a grade of quality cleaning and performance never before approached. **Super-Strong Soap Solution** assures brighter colors, reduces spotting and re-cleaning, and almost completely eliminates wet cleaning. TRUCLEEN'S fully-automatic, 2-Bath operation cuts down labor costs in your cleaning room, and steps up production in every department of your plant.

- **Super-Strong Soap Solution*** gets right after dirt for deep-down, thorough cleaning . . . **you do your pre-spotting in the Wash Bath.**
- **Separate Wash and Rinse Baths,** each continuously filtered at the rate of 100 gals. per minute, assure very best cleaning.
- **Rinse Bath Continuously Filtered and Distilled** for brighter, super-

*Up to 6% soap solution can be used in the Wash Bath.

See the TRUCLEEN Dry Cleaning Unit in our display (Booths 101 & 103) at the N.I.C.D.

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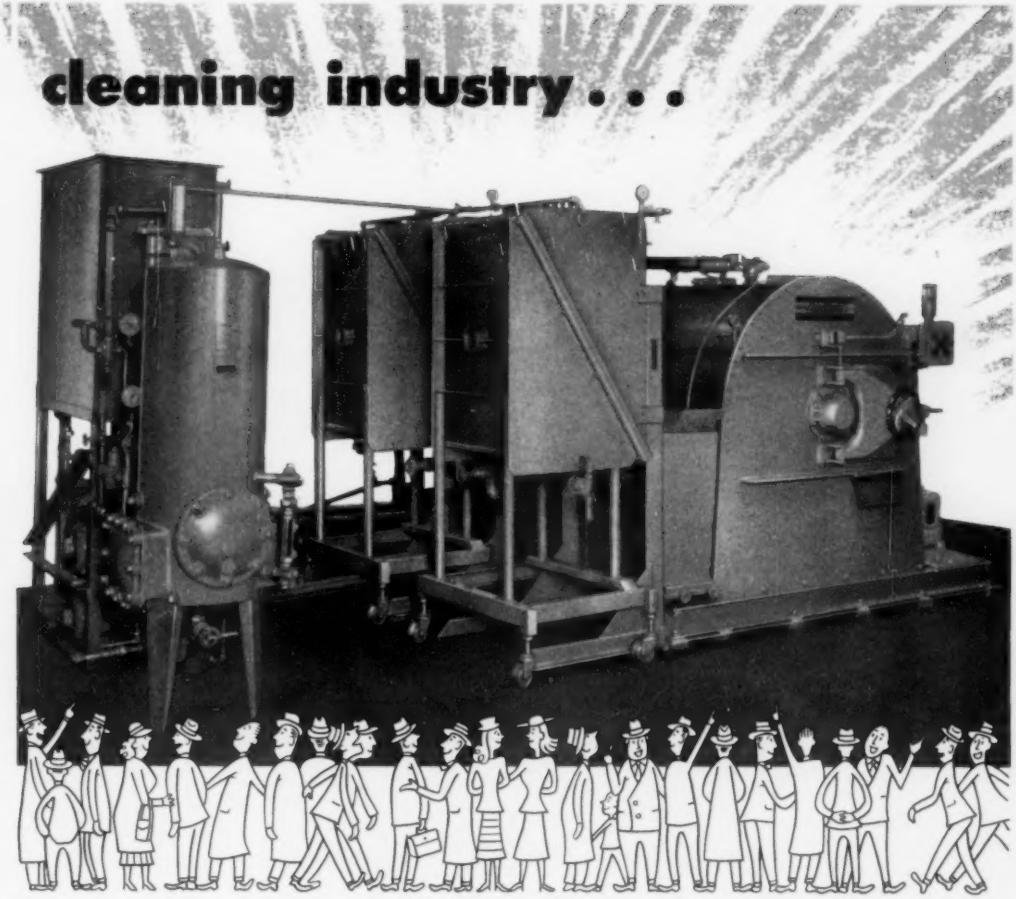
cleaning industry . . .



STRONG SOAP SOLUTION

quality cleaning of all types of work.

- **Washes, Extracts, Rinses and Extracts** in one straight-through, automatic cycle.
- **Simple, Electro-Pneumatic Control** automatically performs all operations, without operator attention.
- **Amazingly High Production . . .** Cleans 150 lbs. of 3 different classifications of work per hour at the same time, without redeposition of soil.

Convention in St. Louis, Feb. 7-9.

WRITE TODAY . . . for illustrated literature on TRUCLEEN, the fully-automatic, 2-Bath Unit that's the talk of the dry cleaning industry.

AMERICAN CLEANERS EQUIPMENT CO.

CINCINNATI 12, OHIO

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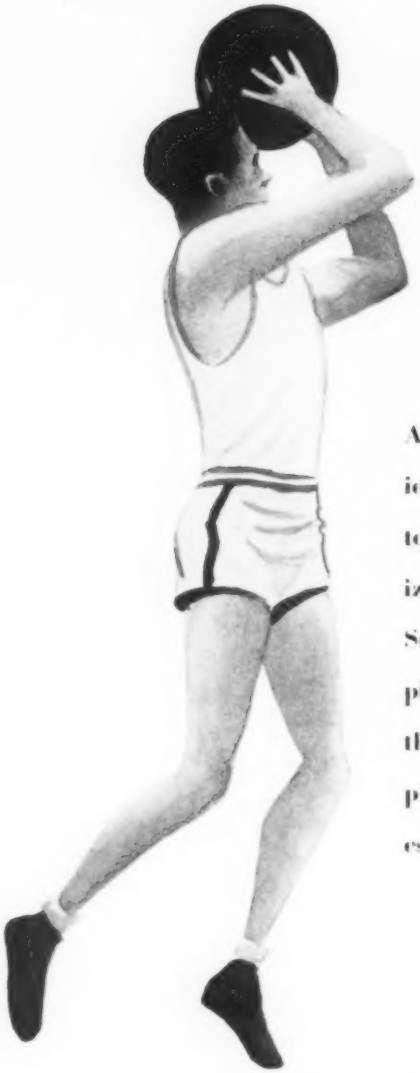
Like **Denver and NCAA Basketball**



STOD-SOL

and STOD-SOL Test Bundle Service

GO TOGETHER

All over the country, drycleaners find it easier to shoot over the heads of competitors to the goal of increased profits by standardizing on Stod-Sol and Stod-Sol "Test Bundle" Service. Through greater efficiency in the plant and better quality in the finished work, this product-and-service combination can improve *your* business success. Ask your nearest Stod-Sol distributor for details.

140-F.

ANDERSON-PRICHARD
INDUSTRIAL NAPHTHAS

ANDERSON-PRICHARD OIL CORPORATION

PRODUCERS REFINERS

OKLAHOMA CITY, OKLA.

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Your customers silently endorse your service every time neighbors see your printed garment bag delivered. Big, colorful printed garment bags hit the eye . . . tell and sell . . . build your business! International Paper Company, 220 East 42nd Street, New York 17, N. Y.

International Paper COMPANY

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"The more the world changes the more it remains the same"

Published

The Strong Soap Process

Phenominal Results May Be Expected If Correct Equipment and Soaps Are Used—Concoctions Unwisely Added By Cleaners

By PAUL WARREN

The Strong Soap Process is probably the most discussed topic in the dry cleaning industry today. You may take issue with me right here and insist that price wars hold an uppermost place in the average dry cleaner's thoughts, but it is this very condition that has prompted the plantowner to strive for greater efficiency, and the Strong Soap Process was the first definite, tangible solution to the problem of reducing operating costs.

Today the pressure of competition is tense, and with profits impaired by lower prices, the passing out of existence of the most poorly managed plants will be quickened.

But there is profitable business to be had for the plant owner who is keen to meet these conditions by concerted efforts to increase the efficiency of every department of his business—by careful co-ordination of advertising and selling efforts; and by producing a grade of quality cleaning and service above reproach.

Quality work must by all means start in the cleaning room. Properly purified gas at the correct temperature is the first step. The Strong Soap Process is the second.

Hundreds of cleaners have testified to the savings made possible by the Strong Soap Process. Spotting reduced at least 50 per cent. Wet washing almost eliminated. Re-cleaning reduced to the minimum. Brighter colors, cleaner work. This process has proven so revolutionary that it is looked upon as a necessity to meet the new competition.

The value of more soap in the wheel was learned sometime ago by his brother, the blindryman. He found that a stronger solution of soap had greater emulsifying properties, and that it could better agglomerate the soil that had been released by the water, thus preventing the soil from spreading on the material. It is sound reasoning that this theory would apply to dry cleaning, and it has been proven that it does in actual plant practice.

Before the advent of the Strong Soap Process in dry cleaning, most benzine soap manufacturers recommended one pound of soap to thirty-five gallons of gas, which is equivalent to three-tenths of one per cent by volume. And many overzealous salesmen claimed that it was necessary to use only half as much. It is an actual fact that many cleaners made a stock solution of one pound of soap to each gallon of gas, and then used one quart of that solution to a silk washer holding thirty-five gallons. To prove the utter folly of this practice, fill a pint bottle with gas and then add one hundredth of an ounce of soap, and you have the same proportion. The use of any soap at all in these proportions is an economic waste.

The term "Strong Soap Process" may sound like something mysterious or complicated. But, to the contrary, it is simply a commonplace idea to use enough soap to do some good. The proportion of soap to the amount of gas required for the desired results ranges from 3 to 8 per cent by volume, depending on the amount of saponified fatty acid in the soap.

To adopt the Strong Soap Process it is necessary, for the sake of economy, to use the soap solution over and over until it is spent. Actual tests have proven that plain gas without the aid of soap will remove 90 per cent of the dirt. It therefore is advisable to give the garments a break run in plain gas before immersing in the strong solution, and in this manner keep the soap clean and reserve its strength for only the removal of ground-in soil and stains. The ideal method for preserving the soap is to reserve one washer for the soap solution only, and connect it to either a pressure filter or centrifugal. If a completely soluble soap is used it will flow freely through the filter or centrifugal without throwing out, but all dirt and suspended matter will be removed, thus keeping the soap stock in good condi-

tion for the following loads.

There [illegible] period at which the soap loses its clean[illegible] it should be used [illegible] her of [illegible] loads [illegible] ounce [illegible] dresses [illegible] with a [illegible] spent [illegible] then s[illegible]

Al[illegible] most [illegible] over [illegible] been [illegible] of co[illegible] and [illegible] and [illegible] ficat[illegible] ficient rinsing.

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"THE CLEANERS AND DYERS REVIEW"

MARCH 1930

21 years ago...

. . . the need for the Strong Soap Process is even *greater today* than 21 years ago

READ THE FIRST FIVE PARAGRAPHS in the old article at your left and note that 21 years ago plant owners were prompted to increase cleaning room efficiency through the use of the Strong Soap Process in order to meet the emergency resulting from price wars brought about by a serious business depression.

Today plant owners are equally in need of increased cleaning room efficiency in order to meet the threat of a serious labor shortage likely to follow the Government's progress in its armament program.

As stated in the first paragraph, "*the Strong Soap Process was the first definite, tangible solution to the problem of reducing operating costs.*"

The savings effected by the Strong Soap Process are reflected throughout the entire plant in the spotting, wet cleaning and finishing departments. Plant owners having standardized on this technique before the labor problem becomes acute will later enjoy the blessing of their employees in every department who would otherwise find their tasks too burdensome with less efficient work in the cleaning room.

The claims made in the fifth paragraph are just as they would be written today. However, the process itself has been reduced to a far more scientific scale with the introduction of Street's new Strong Soap Testing Kit through which the operator may know at all times the exact concentration of FORMULA 886 in his Strong Soap Solution. *All of the guess-work of the old Strong Soap Process is now eliminated.*

Street's field technicians are trained in all the variations of the Strong Soap Process. A fieldman is near you, regardless of your location. He will gladly call on request to recommend whichever variation of the Strong Soap Process is most adaptable to your individual requirements. He will also demonstrate the use of the new Strong Soap Testing Kit which is destined to extend the use of this process to the majority of plants throughout America. Address your request for a survey and demonstration to R. R. Street & Co., Inc., 561 W. Monroe St., Chicago 6, Illinois.

INDUSTRIAL CHEMISTS . . . SINCE 1876

R. R. STREET & CO., INC.

561 W. MONROE ST., CHICAGO 6, ILL.

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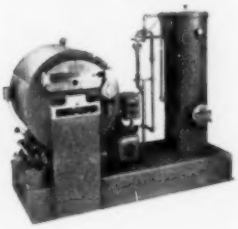
Increase Your Production with Modern Mercury Equipment

In addition to its popular 140° F. Petroleum Solvent Unit, Mercury now has available Stoddard Solvent Units, Vacuum Stills and 140° F. Drycleaning Tumblers which can economically boost your drycleaning volume.

Pictured at the right is the 36 pound Mercury Stoddard Solvent Unit which lists at 2350.00 (less tumbler) and is ideal for "specials," "reruns," and additional capacity for your plant. This unit has a storage tank, filter and combination washer-extractor. Furnished with explosion-proof motor and switch. Tumbler is optional, at $595.00.

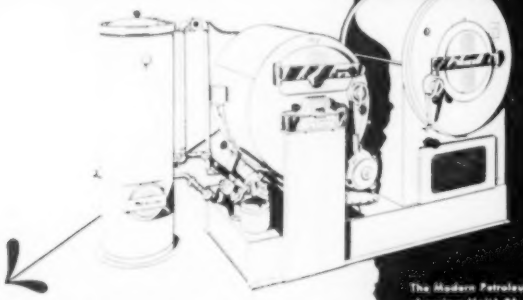
STODDARD SOLVENT UNIT



SAVES 50% LABOR

(and experienced help not needed)

U L, the label that keeps danger away and protects over 3000 successful Mercury owners, their employees and their property.



COMBINATION WASHER-EXTRACTOR saves one complete operation. Avoids transfer of wet garments and solvent spillage. Saves time, saves solvent.

DESIGNED FOR $1,000.00 WEEKLY VOLUME. You can add another Mercury for double volume and diversified loads. 50 GPH Mercury vacuum still, optional.

USES 140° F. SOLVENT FOR SAFETY AND ECONOMY

The Modern Petroleum Drycleaning Unit! 36 pound washer-extractor, 36"x30" tumbler, six plate 1000 GPH filter, sight glasses, piping, pump and storage tank in one complete system.

$2850

F.O.B. FACTORY

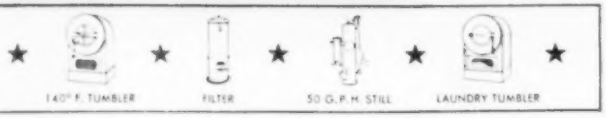
DRY CLEAN WITH DRY HANDS

MERCURY

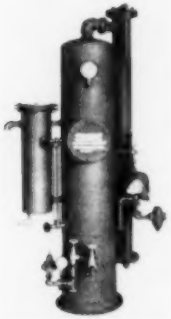
The Modern Petroleum Unit

MERCURY CLEANING SYSTEMS, INC.

549 W. Washington Blvd.
Dept. 18, Chicago 6, Ill.
Telephone ANdover 3-5420



VACUUM STILL



50 GPH Still is optional as U/L listed equipment with Mercury Unit and adaptable for use with any petroleum solvent unit. Also available in larger sizes.

140° F. TUMBLER

U/L listed and can be used with any 140° F. Petroleum unit. 50 complete air changes a minute and choice of 6 temperature ranges for shrinkage control.

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Cyclo

Concentrated Prespotter

America's favorite since the very beginning of prespotting, Cyclo comes to you in concentrated form which provides for extreme economy. Throughout the years there has been no successful attempt to imitate Cyclo for free rinsing, uniformity, safety to colors and stain removal. For the brushing of hem-lines and other tough brushing jobs Cyclo has no equal.

Picrin

For touch-up spotting

After finishing or pressing, small stains may appear which might have been missed in spotting, or they might be the result of unclean hands or brushing against a machine. Picrin is most adaptable to this use. It has quick acting solvent properties, and being unusually volatile, feathers readily without unduly mussing the fabric. Safe to all dyes of average fastness.

INDUSTRIAL CHEMISTS SINCE 1876 • 561 W. MONROE ST., CHICAGO 6, ILLINOIS •

STREET'S

Anolite

Base for making filter soap

By the simple process of mixing 45 gallons of pure solvent with 9 gallons of Anolite in a standard drum, you make 54 gallons of the finest filter soap in current use at a saving of approximately $30.00 for each 54-gallon drum you make. This mixture may be used either dry or in moisture stocks in the same proportions on which you have standardized for conventional filter soap.

Blendsol

America's favorite filter soap

Skillful mixing at the factory relieves the busy operator from the inconvenience of preparing dry stocks. Blendsol is ready for use, just as it comes from the drum. The components selected for emulsification and homogenization also provide for the making of outstanding moisture stocks which in turn disperse into a finely divided colloidal state in washer solvent.

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When writing to advertisers please mention The NATIONAL CLEANER & DYER

Do you know what **CALGON** can do for you?

Do you have

HARD WATER?

Calgon softens water. Calgon keeps water hardness from combining with soap to form soap film. Water hardness wastes soap in forming this film. Soap film binds soil, and even germs, in the fabric; soap film causes odors; soap film also makes spots and streaks troublesome in wet cleaning.

Do you have

SOFT WATER?

Many users of Calgon do. Even naturally soft water contains troublesome hardness easily controlled with Calgon. Calgon guards against seasonal variations in water hardness as well as dangers of hard water when your zeolite softener nears exhaustion. Calgon prevents interference by hardness introduced in soil of the garments. You cannot protect against this hardness in any other way.

Do you use

SOAP?

Soap in water conditioned with Calgon gives a rich, active suds. Soap is not wasted. Old soap film is removed by Calgon and the imbedded soil is released. Calgon in the rinse assures the elimination of every bit of soap and soil; spots and streaks cannot form.

Do you use

SYNTHETIC DETERGENTS?

Calgon removes old soap film and lets your synthetic detergent do a real cleaning job. Many synthetic detergents are precipitated by hardness and Calgon prevents this waste. Calgon helps synthetic detergents clean. Calgon added to the soap or detergent and the rinse insures that soaps or synthetic detergents can be used alternately or together without interference from hard water.

WHETHER YOU USE HARD OR SOFT WATER . . . SOAPS OR SYNTHETIC DETERGENTS, CALGON INSURES A DOUBLE BENEFIT IN WET CLEANING:

1. Your work has the look and feel of quality; and

2. You save time and materials

*Use Calgon** **IN THE FORM THAT'S BEST SUITED TO YOUR NEEDS!**

for quality laundering . . . wet cleaning . . . rug and upholstery shampooing!

*Calgon is the registered trade mark of Calgon, Inc., for its common sodium phosphate products.

Instant Calgon is available in 25 lb. drums and in 100 lb. bags. Calgon in regular form is available in 100 lb. bags. Order from your distributor or write to Calgon, Inc.

CALGON, INC., HAGAN BUILDING, PITTSBURGH 30, PA.

When writing to advertisers please mention The NATIONAL CLEANER & DYER

"My Butler Still paid for itself faster than any other piece of equipment"

says **Paul B. Watts,**
U-Li-Ka Dry Cleaners
Knoxville, Tennessee

"Because we use pure, distilled solvent, we dry and deodorize garments much faster with lower and safer temperatures inside the tumblers. We get brighter colors and whites, and we've cut down on spotting and wet washing, too. With the savings made all down the line in both cleaning and finishing, my Butler Still paid for itself faster than any other piece of equipment I ever bought."

As Mr. Watts' experience shows, a Butler Still really pays its way. Distilled solvent can help *you* prevent waste . . . protect profits . . . all down the line. With distillation, you get more effective, more economical performance from *every* piece of equipment in your plant. And with a Butler Still, you get pure distilled solvent . . . at a lower cost than other methods of treating solvent.

Ask your Butler Sales Representative to demonstrate distillation . . . without cost or obligation to you. Or write today for more information.

Butler 125 gph Still

BUTLER

BUTLER MANUFACTURING COMPANY
7452 E. 13th Street Kansas City 3E, Missouri

STILLS • FILTERS • PRESSES • WASHERS • EXTRACTORS • TUMBLERS
SYNTHETIC UNITS • SAFE-T-THRIFT 140°F UNITS
EXTRACTING-WASHERS

When writing to advertisers please mention The NATIONAL CLEANER & DYER

KIDDYKOLOR
GARMENT BAGS

Now being used with amazing success by alert cleaners all over the country

CHILDREN BEG FOR THEM

Take the advice of enterprising cleaners who use KIDDYKOLOR bags regularly and you, too, can boost sales to an all-time high. Here's why:

Every bag is like a page from a giant color book. Children beg for them . . . and mothers respond with more cleaning orders. Kiddies spread the news to relatives and neighbors . . . and your list of *new* customers grows rapidly. In other words, you are practically certain to profit substantially from the extra advertising and sales-boosting value that KIDDYKOLOR bags offer. There's a wide variety of subjects from which to choose and new illustrations are printed regularly to maintain constant appeal. Sold on exclusive basis. Free newspaper ad mats and handbills available for tie-in promotion. Write, wire or 'phone for samples and prices today.

DIMENSIONAL PACKAGING

Kennedy
CAR LINER AND BAG COMPANY, INC.
SHELBYVILLE, INDIANA

NEW YORK PHILADELPHIA BUFFALO CLEVELAND DETROIT CHICAGO LOS ANGELES SAN FRANCISCO PORTLAND SEATTLE

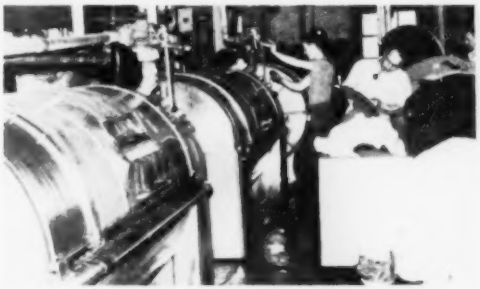
When writing to advertisers please mention The NATIONAL CLEANER & DYER

If you want the best dyeing for your customers ...use the service with the most plus features

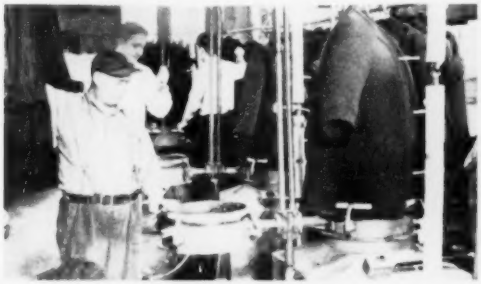
Tru Color DYE WORKS

America's Great Mail-Order Dye House
8000 Cooper Avenue
Brooklyn 27, N. Y.

Just a few of TRU COLOR'S *27 plus features*



● All garments are first pre-scoured at TRU COLOR . . . then dyed in special stainless steel washers with variable speed and temperature controls. Dye baths contain high dyestuff content, special oils and penetrants to assure maximum penetration, color uniformity and fade coverage. Shrinkage inhibitor is used in dyeing woolens.



● After dyeing TRU COLOR wind-whip dries all except extra-heavy woolens, which are cold-tumbled and slowly air-dried.

● Rayon linings and seams that fray in dyeing are mended at no extra charge.

Write for FREE "*Profit-Making Kit*" . . . contains everything you need to get started with TRU COLOR

FREE Decals, Window Posters and Color Cards for TRU COLOR users

When writing to advertisers please mention The NATIONAL CLEANER & DYER

The only question is "when?"

Sooner or later the man looking for a better truck buys an International.

Then he wonders why he didn't do it sooner. He gets better performance, he cuts costs, he makes more money.

If that's what you want, the only question is "when?"—when are you going to see your International Truck Dealer or Branch and get all the facts about the new International Truck that is engineered to do your job better, at lower cost?

INTERNATIONAL HARVESTER COMPANY • CHICAGO

Only Internationals give you—

- All-truck engines designed exclusively for truck work, developed and built in the world's largest exclusive truck engine plant.
- The "roomiest, most comfortable cab on the road"—the Comfo-Vision Cab designed by drivers for drivers.
- Super-steering system—more positive steering control with easier handling and 37" turning circle for greater maneuverability.
- The traditional toughness of trucks which have been first in heavy-duty truck sales for 19 straight years.
- The world's most complete line of trucks . . . 115 basic models, from ½-ton pickups to 90,000 lb. GVW off-highway models.
- Service by nation's largest exclusive truck service organization.

International Harvester Builds McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Industrial Power. . . Refrigerators and Freezers

INTERNATIONAL TRUCKS

More than One Million Now on the Road

Model LM-150, 115-in. wheelbase, 9½-ft. flat-back Metro body, 8,000 pounds GVW.

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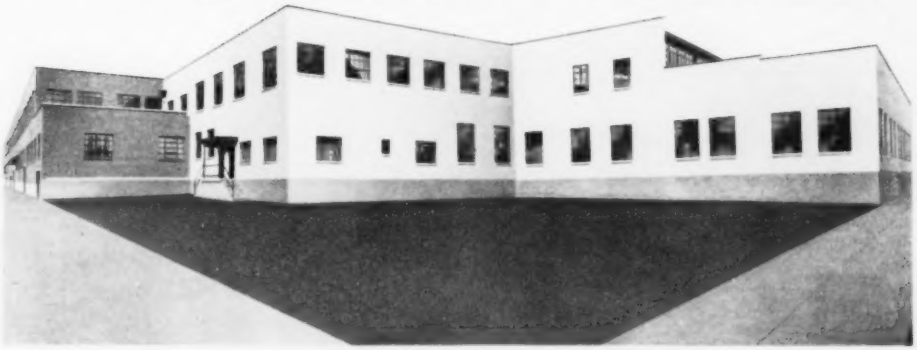
Twenty years a' growing!

There's CONFIDENCE in the name

CISSELL

Consult Your Jobber

. . . now complete from foundry to finished products



Over 100,000 square feet of floor space

W. M. CISSELL MANUFACTURING CO., INC. — 831 S. FIRST ST., P. O. BOX 1143 — LOUISVILLE, KY.

PACIFIC COAST OFFICE: 4823 W. JEFFERSON BLVD., LOS ANGELES

Foreign Distributors: Address Correspondence Attention Export Dept. Cable Code: CISSELL

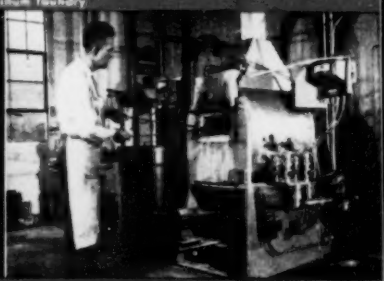
W. M. CISSELL, President

FRANK H. RICHTERKESSING,
Secretary-Treasurer

GENERAL OFFICE

EXPORT DEPT.

Cissell operates its own gray iron, brass and aluminum foundry



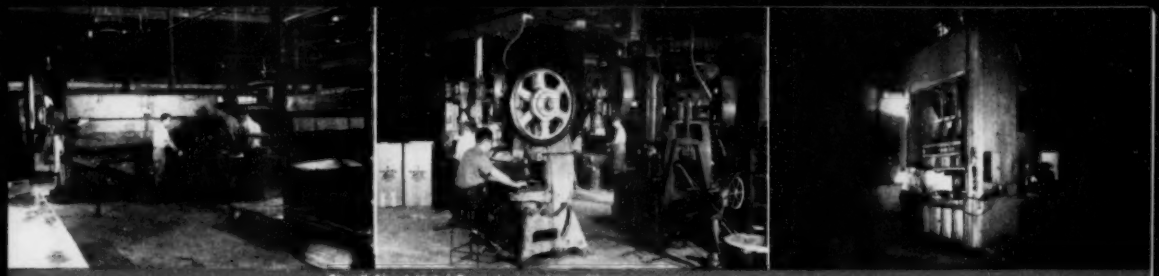
Cissell Tool Room is complete in every phase—tool making, grinding, heat-treating

Cissell Machine Shop includes every modern machine—automatic screw machines, turret lathes of all sizes, drill presses and tapping machines

There's CONFIDENCE in the name

CISSELL

Consult Your Jobber



Cissell Sheet Metal Dept. is complete with power and rotary shears, brakes, and punch presses from 5 to 250 ton capacity

WELDING

SEWING

GENERAL ASSEMBLY

PAINT SPRAYING

PLATING—Chrome, Nickel, Copper and Cadmium

POLISHING AND GRINDING

STEAM-ELECTRIC AND ELECTRIC IRONS

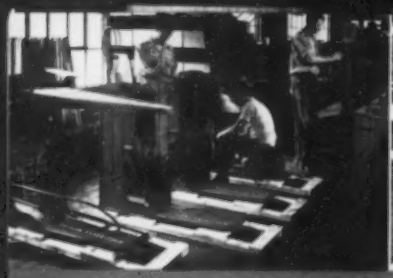
PUFF IRONS

SLEEVE FINISHERS

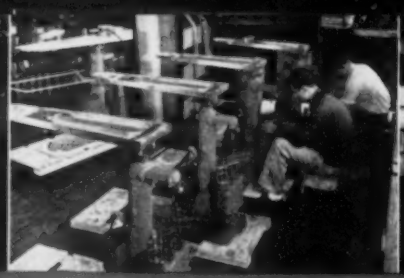
There's CONFIDENCE in the name

CISSELL

Consult Your Jobber

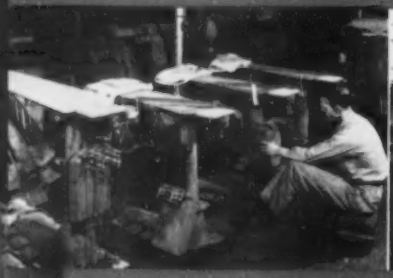


STEAM SPOTTING BOARDS



VACUUM SPOTTING BOARDS

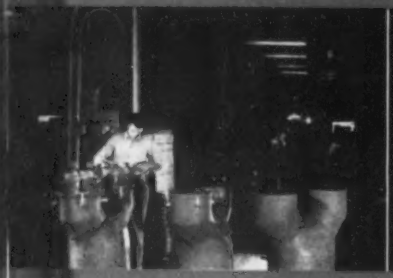
PRE-SPOTTING UNITS



STEAM FINISHING BOARDS

GARMENT CONDITIONERS

HOSIERY DRYERS



GARMENT DRYERS

CUFF BRUSHERS

BOILER-RETURN SYSTEMS

WATER-SPRAY GUNS

CISSELL HEAD VALVES

PACKING & CRATING

There's CONFIDENCE in the name

CISSELL

Consult Your Jobber

TROUSERS WILL NOT SLIP

On GRIPPO GUARDS!

Are you plagued by trousers falling from the hangers during handling on plant racks and enroute in your delivery trucks? Grippo Guards made of heavy kraft board with a coating of vulcanized LATEX along the ridge, prevent even the smoothest fabrics from slipping — — —

They're LATEX Coated

GRIPPO GUARD

PATENTS PENDING

L. M. Leathers' Sons, Paper Division

P. O. Box 1188, Athens, Georgia

Distributed by leading jobbers everywhere

When writing to advertisers please mention The NATIONAL CLEANER & DYER

The WORK HORSE of The Industry!

Hammond Speed King

OPEN-END STEAM TUMBLER

Now's the time when consistent operation, minimum maintenance, and uninterrupted service mean more to you than ever before. We only ask you to compare Hammond Open End Tumblers with any other . . . . check the outstanding features . . . . watch the perfect tumbling action give thorough, uniform drying . . . . and better set. Hammond Open End Tumblers cost you less to buy—less to operate. Make the comparison and your next tumbler will be a HAMMOND!

SPECIFICATIONS

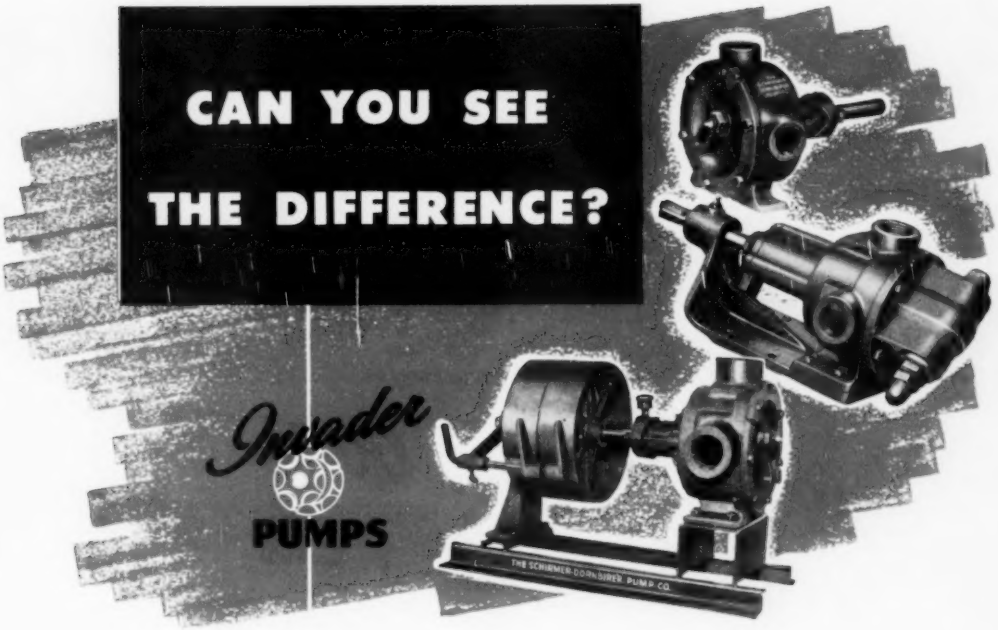
- Cylinder size—36" x 30" (40-lb. capacity)
- Air tight service door fitted with tempered glass window
- Automatic lubricating system
- Completely enclosed final drive (all moving parts operate in oil bath)
- Space dimensions — 39" x 42" x 71" height
- No worm gear reducer or flex couplings
- Cylinder carried on Timken Tapered Bearings
- Shipping Weight—850 lbs.

Hammond Open End Tumblers are available in either Laundry or Drycleaning types.

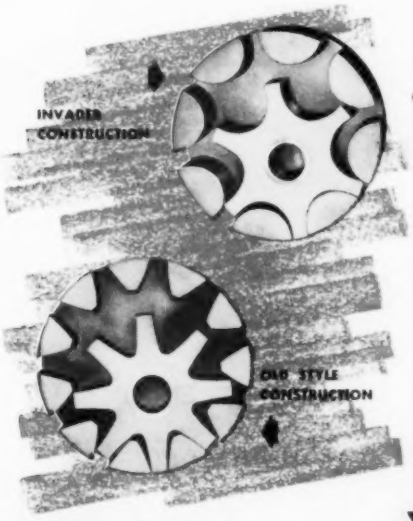
SINCE 1911

Hammond
LAUNDRY-CLEANING MACHINERY CO.
WACO, TEXAS

When writing to advertisers please mention The NATIONAL CLEANER & DYER



THESE *Invader* MODELS look a great deal like the rotary pumps you've been using. They have the same capacities—the same mountings—the same port arrangements—the same pipe sizes. They will fit your equipment with no expensive changes in piping or mounting. *Yet there* IS *a difference!*



HERE'S THE ANSWER . . .

If you look inside you will see that INVADER is an improved type of construction applied to an old and proven principle . . . a gear-within-a-gear rotary pump. The *positive seal* and *rolling contact* of this tooth design assure you of a pump service never before obtainable . . . less "down" time, fewer replacements and reduced power costs. Self priming . . . no pulsation . . . economical to operate. "Invader" Pumps embody the highest quality materials and workmanship, and are guaranteed to be free from defects.

ASK YOUR EQUIPMENT JOBBER OR
WRITE FOR FULL INFORMATION AND PRICES

The SCHIRMER-DORNBIRER PUMP Co.
1719 EAST 39th STREET CLEVELAND 14, OHIO

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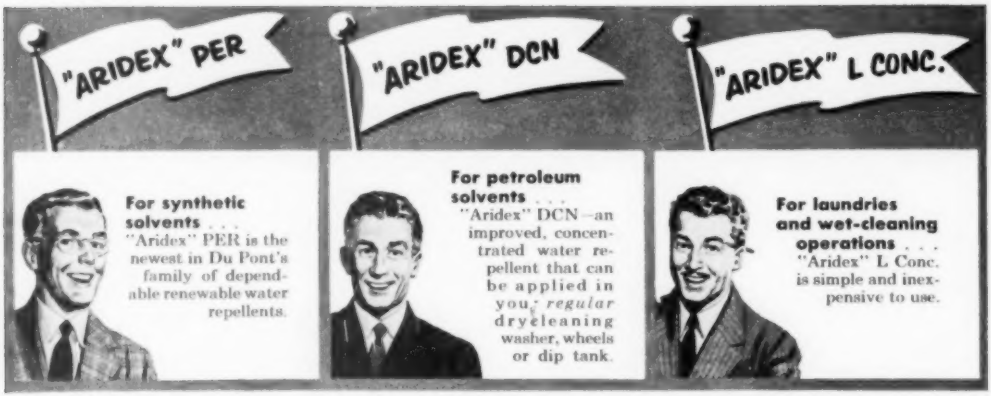


NOW THERE'S A QUALITY DU PONT WATER REPELLENT FOR EVERYBODY!

There is a specially designed "Aridex" renewable water repellent for *every type of dry cleaning or laundry operation!* Whether you use petroleum, synthetic solvents, or wet-cleaning methods, there is an "Aridex" that's tailor-made for you!

Here's how you profit: "Aridex" builds repeat business . . . because "Aridex" should be renewed after cleaning or washing. "Aridex" cuts down your spotting time because garments treated with "Aridex" resist non-oily spots and stains . . . makes your cleaning job easier.

Your customers want "Aridex": Garments treated with "Aridex" produce an excellent water-repellent effect. Customers like the pleasing hand "Aridex" gives fabrics . . . the way fabrics resist wrinkling caused by moisture absorption. Your customers know the Du Pont name and trust it. When you tell them you have Du Pont "Aridex," they are already pre-sold!

Ask your supplier for the "Aridex" specifically made for *your* cleaning operation.

For information about sales helps, write Du Pont Textile Service Section, 40 Worth Street, New York 13, N. Y. CO 7-3966.

DU PONT Aridex
REG. U. S. PAT. OFF.
Renewable Water Repellent

DU PONT
REG. U. S. PAT. OFF.
BETTER THINGS FOR BETTER LIVING
. . . THROUGH CHEMISTRY

When writing to advertisers please mention The NATIONAL CLEANER & DYER

12 Reasons Why
BUTLER *Quik-Steam** PRESSES
Are the Best Your Money Can Buy

Bigger Production—Better Quality

BUTLER Quik-Steam 40" Utility Press

1. **Fastest Opening Head**... more lays per hour, with no loss in quality.
2. **Quickest Steam**... assures fastest conditioning of garments.
3. **Quickest Drying Vacuum**... more even drying and finest finishing.
4. **Easiest to Operate** . . . less operator fatigue—high level production throughout the day.
5. **Copper Tubing Throughout** . . . an exclusive Butler feature assuring longer life and less maintenance.
6. **Rugged All-Steel Frame**... a stronger, sturdier press with less dead weight.
7. **Removable Side Panels** . . . keep dirt and grease from working parts . . . provide easy access for service.
8. **Packless Steam Valves** . . . eliminate leakage and time-consuming repacking.
9. **Lubricated for Life Bearings**... eliminate lubrication maintenance—lubricants can't leak out.
10. **Aluminum Heads** . . . transfer heat faster . . . they're lighter, easier to open and close.
11. **Solid Hardwood Table** . . . prevents snagged, torn or rust stained garments.
12. **Butler Built** . . . designed and engineered by pressers for pressers . . . made by skilled workmen from highest quality materials.

Available in three sizes: 18", 40" and 45".

In just 15 minutes, your Butler Sales Representative can show you how these 12 features of Butler Quik-Steam Presses make the best press your money can buy. Ask him to show you soon, or write today for more information.

*Trademark

BUTLER

BUTLER MANUFACTURING COMPANY
7452 E. 13th Street Kansas City 3E, Missouri
STILLS • FILTERS • PRESSES • WASHERS • EXTRACTORS • TUMBLERS
SYNTHETIC UNITS • SAFE-T-THRIFT 140°F UNITS
EXTRACTING-WASHERS

When writing to advertisers please mention The NATIONAL CLEANER & DYER

WARNING!

Don't Accept Substitutes
There's Only ONE
TWIST-EMS T. M. Reg.
The Original *Hanger Tie*

Clean Clothes Last Longer... Clean Clothes Last Longer... Clean Clothes Last Longer

Now Identified to Protect YOU— The Hanger Tie with This Sales Message Printed Right on the Tape

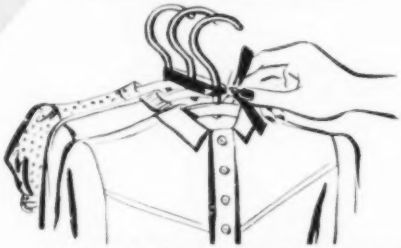
Laminated with Colorless Stainproof Glue — Attractively Packed in Convenient Units

Just a glance at the distinctive colored TWIST-EMS Hanger Tie group orders identifies complete customer order for driver. No more "partial" deliveries or costly time consuming mix-ups on customer group orders.

TWIST-EMS Hanger Ties save time and are easier to use than cord or other methods of tying, and their attractive and colorful appearance will please your customers, too!

With a Twist-of-the-Wrist TWIST-EMS Hanger Ties Make a Secure Unit of Multiple Customer Orders

Ask your supplier about the time and money saving TWIST-EMS Hanger Tie or write for Free Samples and new Low Prices. Be sure to include NAME and ADDRESS of your Supply House.



TWIST-EMS Hanger Ties Eliminate "Partial-Order" Deliveries and Driver "Mix-ups"

MANUFACTURED BY
GERMAIN'S
SINCE 1871
TWIST-EMS DIVISION

Germain's Inc. TWIST-EMS Div.,
Dept. NCD, Los Angeles 21
Please send TWIST-EMS samples—

Name _____
Address _____
City _____ Zone _____ State _____
My Supply House is _____

Mail Coupon for
Free Sample & New Low Prices

When writing to advertisers please mention The NATIONAL CLEANER & DYER

"the only good moth is a dead moth"

Partner, everyone agrees . . . and every cleaner who knows Monite knows it's *sure-fire*—sure-fire as moth protection, sure-fire as the added attraction that turns occasional customers into steady repeaters—into profit-making volume business!

*Easier and cheaper than a blunderbuss, too! Applied in the wheel—no extra labor or equipment needed—costs only 1½¢ per average 3 lb. garment!

MONITE INSURED MOTH PROOF CLEANING PROCESS

Adco, Inc.

Manufacturing Chemists Since 1908
Sedalia, Missouri, U. S. A.

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ONLY *Fletcher* EXTRACTORS offer such a complete range of sizes

30 inch- 55 pounds*

33 inch- 90 pounds*

40 inch- 130 pounds*

48 inch- 190 pounds*

60 inch- 300 pounds*

Yes, Fletcher alone can supply the right size extractor for every dry cleaning set-up. With our "Junior" Extractor made with 30" and 33" basket sizes and the famous "Whirlwind" with baskets in 40", 48" and 60" diameters you can now balance your extractors with your washers. At the same time, you can be sure of getting Fletcher's many design features and high quality construction. Remember, we are specialists in the manufacture of extractors and have the experience and know-how to assist you in solving your extracting problems. Our engineers will gladly consult with you—or if you'll tell us the size in which you are interested, descriptive bulletins will be sent you.

See the 33" machine at Booth 156 . . . N.I.C.D. Convention, St. Louis, February 7-9.

* Pound capacities are for woolen fabrics, dry weight.

— CONSTRUCTION FEATURES —

The "JUNIOR"

- Safe—Won't start until cover is closed. Cannot be opened until basket is stopped.
- Smooth stainless steel basket cannot harm fabrics.
- Exclusive Fletcher "Super Self-Balancing." High stability up to 10 pounds out of balance.

The "WHIRLWIND"

- Heavy stainless steel basket—glass smooth interior. No corrosive steel reinforcing bands. Permanently safe.
- Finger-tip control for automatic braking.
- Easy to load and unload.
- Compact. Saves floor space.

FLETCHER WORKS

213 GLENWOOD AVE. PHILADELPHIA 40, PA. ESTABLISHED · 1850

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Adco RESEARCH CREATES A BETTER DRESSED AMERICA

Better looking dry cleaning for the cleaner's customers . . . at an undreamed new low cost to the cleaner himself! Newest success story in the volume of Adco research achievements—the brand new Dri-Sheen Process—the most fool-proof, easy-to-use, economical charged system method of cleaning yet! The Dri-Sheen Process needs no extra equipment, contains no fatty acids, combines Dri-Sheen Super Detergent and 400 Liquid Dry Cleaner for *perfection* in cleaning results.

ADCO HAS AVAILABLE FOR YOU:

Hygrometer with moisture charts for perfect control of humidity and moisture. Easy-to-use Dri-Sheen test kits for checking amount of Dri-Sheen charge in your solvent.

DRI-SHEEN PROCESS
Charged System

400
Fool for Fabrics

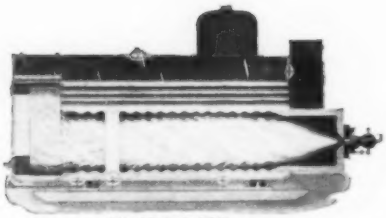
Adco, Inc.,
Manufacturing Chemists since 1908
Sedalia, Missouri, U. S. A.

Contact Adco's Division Manager Nearest You or Write, Call or Wire Adco, Collect.

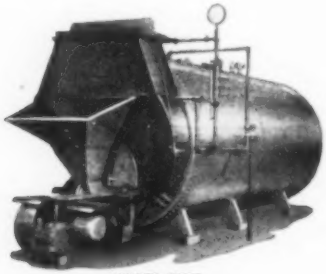
for years and years of efficient, dependable service . . .

leffel

SCOTCH TYPE **BOILERS**



OIL OR GAS FIRED



STOKER FIRED

HAND FIRED WITH COAL

You leave your boiler worries behind when you specify a Leffel Scotch Type Boiler. Yes, generations of Leffel users will assure you that you can *depend* on your Leffel boiler to give a full output for many, many years.

Leffel boilers are available in a complete range of sizes to suit your steam production needs—and are given standard commercial ratings, not inflated maximum ratings. That, plus the sturdy heavy-duty construction, means you get full capacity during the entire life of the boiler instead of during just the first few months. It also means that a substantial overload can be carried with complete safety.

Designed to burn coal, gas or oil, Leffel boilers can be easily converted from one fuel to another. And their savings on fuel will amaze you—users report 20 to 40 percent fuel cost reductions.

Compact, easy to install, easily cleaned and easy to maintain, Leffel boilers add up to real economy for your plant operation. Plus the values of outstanding efficiency and output over a long period of time. Before you buy a boiler it will pay you to get the facts on a Leffel Scotch Type Boiler. Write, wire or phone . . . today!

Your investment is secure since you can quickly change from one fuel to another if necessary.

11-51

FOUNDED IN 1862

THE JAMES LEFFEL & CO.

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leading laundry and dry cleaning plants prove it every day...

NOW prove it to yourself with this sample

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MEMBER AMERICAN INSTITUTE OF LAUNDERING CERTIFIED WASHABLE

HOLD UP BETTER! CUT DOWN MARKING AND SORTING TIME! LOWER OPERATING COSTS!

This complete page is printed on PERMAFIBER stock. Just cut or tear on dotted line...take the sample and mark it...attach it to a garment and put it through your cleaning process. See how quickly and easily it takes marking ink...how distinct the markings are...how strong it is...how it comes out flat for easy reading.

(More on how PERMAFIBER saves you money on other side of this page.)

Permafiber Corporation

450 SEVENTH AVENUE, NEW YORK 1, N.Y.

STOP SINGING

the "deadbox" blues!

If tags are costing you DOLLARS in garment replacement costs, in wasted labor . . . because they tear off, markings wash off —

INSIST ON PERMAFIBER the cost-cutting marking tag!

Here's why hundreds of successful plants always specify that their tags be made of Permafiber stock

DURABLE — Permafiber stands up longer under strongest solvents and solutions, won't tear or scuff in processing.

EXTRA-SMOOTH SURFACE — Compare Permafiber tags with any other marking tags. See how marking ink is applied more quickly, more easily . . . is held indelibly through processing.

BRIGHT COLORS — Variety of nine colors — all absolutely color-fast — helps make identification easier.

SCIENTIFICALLY TESTED — It is the only marking tag stock tested and approved by the American Institute of Laundering for durability and color-fastness.

FOR MORE FREE SAMPLES, AND NAME OF YOUR NEAREST PERMAFIBER TAG JOBBER, WRITE TO:

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It's so much easier with Butler Air Cleanout*

No sloppy sludge . . . no slippery floors . . . no more time and labor wasted in removing messy, smelly muck from your filter. Air Cleanout feature of Butler Big Flo** Filters provides the safe, modern way to handle filter muck . . . the easiest, fastest, most pleasant way.

Take the muss and fuss out of filter cleaning and keep your whole plant cleaner, easier . . . own a Butler Filter with Air Cleanout.

*Patent No. 2,301,803
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Milnor stainless steel washers, laundry and dry cleaning extractors . . . of rugged, durable, dependable construction, built to last and LAST. Milnor is permanent quality designed with economy in mind. More and more laundrymen agree that the Milnor System of Individual Washing is the answer to better and faster service. Reduced production costs and economy of operation *mean more profits!* Install Quality . . . install MILNOR.

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MANUFACTURERS
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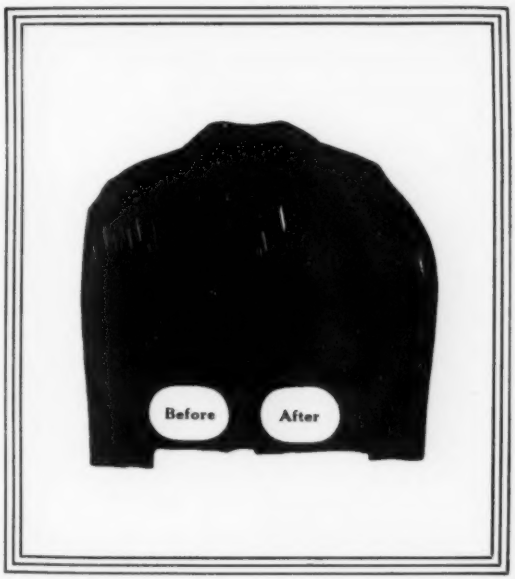

Superior results are obtained with the use of Colorflex in restoring grain leather garments to their original state of usefulness and appearance. This is because Colorflex is a type of leather finish used by leather goods manufacturers.

Colorflex, if correctly applied, recaptures the finish that was the pride of the tanner and dyer of the leather from which the garment was originally made.

Grain leather garments properly refinished with Colorflex will not crack or peel under any climatic condition. They retain all the flexibility and feel of virgin leather, will not rub or crack, remain fast to light and may be dry cleaned without loss of color any more than newly purchased garments.

Colorflex is available in twelve colors, including black and white. They are mixed with water and applied with a sponge, brush or compressed air gun.

Colorflex Top Finishes are extremely flexible lacquers in gloss and dull tones, applied with air gun as a sealing coat and imparting water repellent qualities to the finished leather.

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DISTRIBUTORS EVERYWHERE

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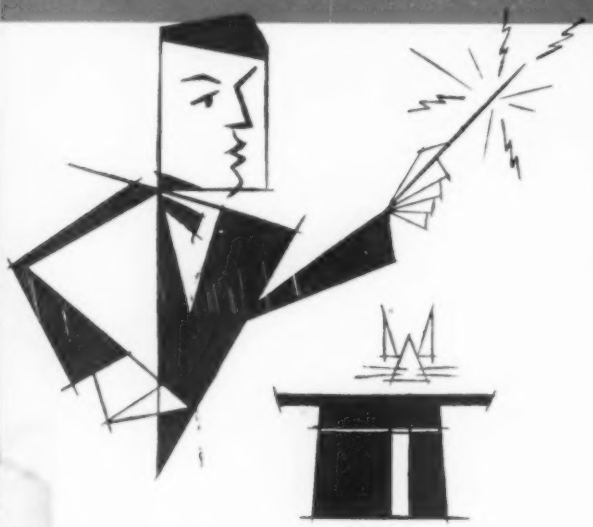

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SOMETHING NEW . . .
SOMETHING OUTSTANDING

"The CONVAIR"

Converts any make, any model Foot Press to a fast, efficient Air-operated Press!

SAVE TIME ★ SAVE LABOR ★ SAVE MONEY

SOLVES MANPOWER SHORTAGES

Installation is simple—The CONVAIR attaches in two hours

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MODERNIZE your plant now . . .
for only $300 your Foot-Press becomes an easy working, production-increasing, Air-operated Press—praised and liked by both male & female pressers. Increase your profits, your quality and keep your pressers happy

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Want a better soap?

MERTEX

ONLY $1.38 per gallon in drums. Less in quantity orders

A high quality soap that meets every requirement of perfect dry cleaning!

MERTEX is your answer to cleaning problems. It is quick-acting and easily handles more loads per hour and requires *less* distillation and *less* activated filter aids. MERTEX filters without pressure . . . eliminates redeposit of soil. MERTEX is economical and easy to use. It is a full-powered detergent when used dry or with moisture that assures the best cleaning job every time. *Specify Merson to your jobber!*

For a truly efficient CHARGE SYSTEM . . .

SO·KLEEN

Dry Cleaning PENETRANT —ready to use—a stand-out by cleaning performance!

ONLY $1.92 per gallon in drums. Less in quantity orders

SO-KLEEN penetrant comes to you complete for immediate application

The best by test SO-KLEEN GIVES YOU AN A-C-T-I-V-A-T-E-D CHARGE SYSTEM and its deeper penetration removes spots, grease and grime thoroughly. It is a blend of detergent bases *plus* a special formula of cleansing and spotting elements. Always uniform, always dependable. SO-KLEEN is fast, safe, sure and economical. It is a penetrant that is not removed by filtration, *but stays in the solvent*, load after load to do its job. Garments, regardless of texture, are brighter, cleaner and fresher . . . they regain their original newness . . . and above all, you do less spotting. SO-KLEEN is prepared under strict laboratory control. *Specify Merson to your jobber!*

ALKASOL Combination, two cleaning jobs in one simple operation

These two good mixers work together and . . . you get the first *complete* self-mixed soap detergent. Here is the complete, chemically-balanced solution that works *effectively* on both dry-soluble and wet-soluble soils while the garment is in the bath . . . has no fatty acid . . . works smoothly with no filter pressure . . . takes out most spots right in the washer! *Specify Merson to your jobber!*

ALKASOL COMBINATION

The newest formula in concentrates

ONLY 21¢ per gallon of Emulsion after you mix your own Alkasol combination

Slightly more on varying recommended formulas

ALKASOL Concentrates

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For better work . . . For bigger savings . . . Ask your jobber for Merson Products — AND BE SURE!

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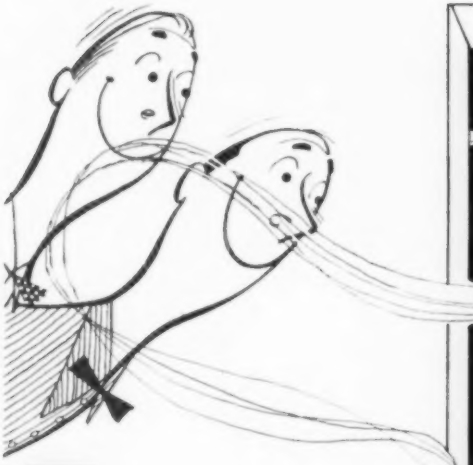

They're really Cooking up something for you at Cook's

It'll all be on display
BOOTHS 257 and 259
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February 7-9

Note New Address →

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Cook has done it again!

Years ago it was Cook who designed and manufactured the 1st 25-pound and the 1st 50-pound open-end washer . . . then the 1st "Twin" washer! 1st's have been a habit with Cook ever since . . . and now it's Cook again leading the field with another 1st (several, in fact!) . . . with new and revolutionary developments in Cook Washettes and (hold your hats!), a completely new, destined-for-wide-acclaim line of drycleaning equipment . . . all at startlingly low prices!

We'll have it all on display for you (and our note-pad-carrying contemporaries) to see at the big N.I.C.D. get-together in St. Louis . . . but right now you can know it's new (not a carbon copy of any other equipment), so hold everything, don't sign anybody's order, keep your hands in your pockets and hold on to your small change . . . and you'll be mighty glad you did when you see Cook's newest 1st . . . at St. Louis!

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HERE FOR YOU IN '52

EXTRAORDINARY DRY-CLEANING SOAP THAT ECLIPSES ANY YET DEVELOPED

Caled's NEW FILT-R-OUT

NOW a New Labor - Saving Era for Dry Cleaners Everywhere With This New "ABC - SIMPLE" - to - Use Soap That Gives *More Passes and Low Wet Cleans*

Wonderful Features:

- Usable In Any Type System
- Used in Batch or Charged Systems
- Has Unsurpassed Detergency
- Distills Completely, Easily
- No Pressure Troubles
- No Odor Troubles
- Re-Runs Instantly Made While Garment Is Still Wet With No Redepositing of Soil
- Use This Soap Any Way You Want
- Effective in Long and Short Runs
- It Won't Fight Other Soaps
- Two Forms:
  (1) As a Complete Soap Ready to Use or
  (2) As a Concentrate—Diluted with Solvent Before Use.

Make This New Year the Best You Ever Had. Never before anything like New Filt-R-Out in any cleaning plant anywhere! Recently developed by Caled, it has been tested and proved in countless plants under all conditions all over the country. If you want to save on re-runs, on spotting time, get clothes through your plant faster with results much better even with untrained help working for you, ask your Caled Salesman for NEW FILT-R-OUT. Or write for full details from Caled Products Co., Inc., Brentwood, Md.

THERE'S A CALED PRODUCT FOR EVERY DRY-CLEANING OPERATION

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choose your DYER from the "GUILD"

INTEGRITY · QUALITY
MEMBER
Garment Dyers
GUILD
of America
1952

Look for these GUILD qualities

- ★ Brilliance of color
- ★ Freedom from fading or shrinking
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- ★ Speed, dependability, service
- ★ Prices that allow proper profit-margins
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The Garment Dyers Guild of America is a group of plants banded together by a single standard of high professional ideals to bring you dyeing of constant reliability.

Through science and research these members are devoted to a continually improving service.

Through interchange of ideas and information they are able to bring you benefits of combined experience, facilities and knowledge.

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Send garments for dyeing to the nearest GUILD plant:

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Check THESE HUEBSCH ADVANTAGES

Before Buying Laundry or Dry Cleaning Equipment

- ✓ PROVED DEPENDABILITY
- ✓ LOW INITIAL COST
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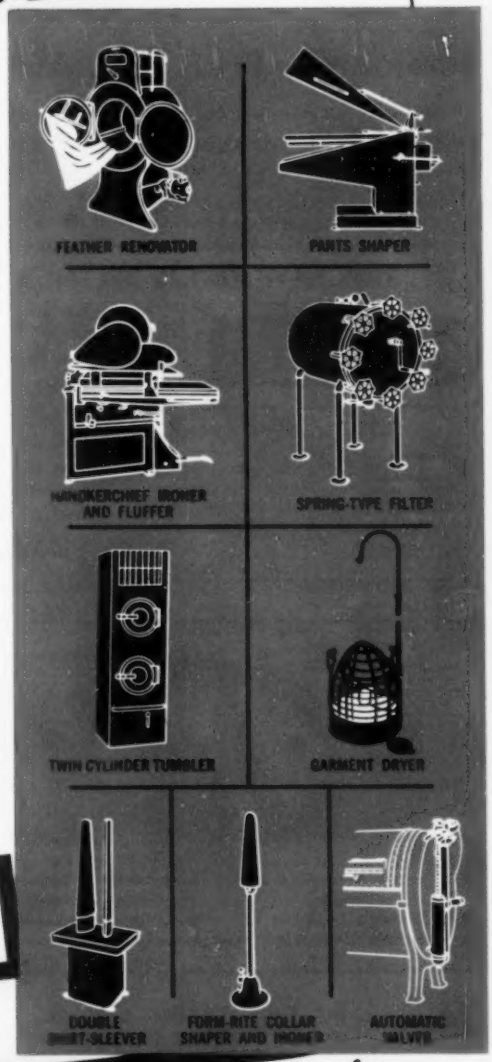
- ✓ LONG RUN ECONOMY

You get more from Huebsch equipment . . . greater production at lower cost.

Everywhere, Huebsch *proved* performance . . . and Huebsch *well-known* acceptance . . . make Huebsch the wanted equipment.

Get all the money-saving, money-making facts. Ask your local Huebsch representative for free literature and details or write, wire, or phone us direct.



More than
80,000
HUEBSCH TUMBLERS
Now in Daily Use

HUEBSCH *Originators*

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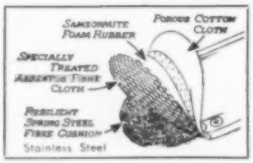
FOR BETTER DRYCLEANING

Insist on samsonmite Products

Samsonmite Press Pads Are Superior!

All materials in Samsonmite Press Pads (see view below) were carefully selected to give you steam and vacuum where and when you want them—instantly! That's why "Samsonmite" is the pad that actually "breathes."

THIS NEW PAD IS BETTER THAN EVER



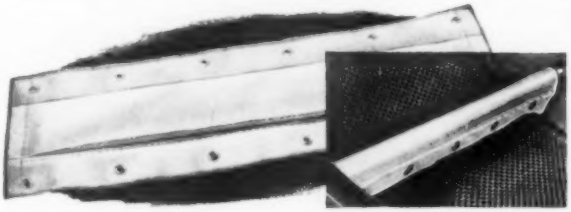
- Vacuum and Steam guaranteed instantly
- Absolute fit for all bucks
- Compact, not bulky

Costs Little More Than Ordinary Pads

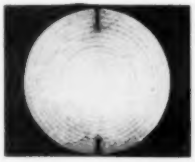
For 42" Press ..... $24.95 and up for larger presses

THE ONLY PRESS PAD THAT'S SOLD WITH AN 8 MONTH GUARANTEE!

samsonmite TUMBLER PADS



- Outlast any other pad
- Snap on in seconds
- Fire-resistant plastic center
- Reduce button breakage in tumblers
- Reduce tumbler friction and static electricity
- Improve cleaning quality
- Prolong garment life
- Reduce customer claims



STURDY EXTRACTOR COVERS

(and Extractor Liners for Netrux)

- In all sizes
- For all makes
- Specially bound with elk leather
- Double Thickness
- Extra Strong

FILTER BAGS & EXTRACTOR COVERS

CUSTOM-MADE FILTER BAGS

- In Orlon or Cotton
- Finest Materials
- Special stitching—stronger
- No shrinkage with Orlon

Ask Your Supplier To Show WHY SAMSONMITE PRODUCTS ARE SUPERIOR!

BOOTH NO. 804 NICD CONVENTION

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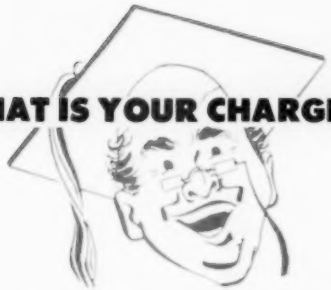
WHAT IS YOUR CHARGE SOAP I.Q.?



Q. WHAT IS THE NATIONAL CHARGE SOAP METHOD?

A. NATIONAL CHARGE SOAP METHOD *is the new and simple drycleaning procedure by which the solvent, once charged with the soap, retains a high quality of soil removal for a prolonged period.*

Q. HOW MUCH DOES NATIONAL CHARGE SOAP *MULTIPLY SOLVENT CONDUCTIVITY?*

A. NATIONAL CHARGE SOAP (N. C. S.) imparts an exceptionally high and stable conductivity to the solvent. The ½ % solution increases the conductivity of pure stoddard solvent almost 500 fold. This results in almost complete elimination of soil redeposition.

Q. WHAT IS THE BENEFIT OF THE *PERFECT SOLUBILITY* OF NATIONAL CHARGE SOAP?

A. National Charge Soap is so soluble in naphtha that it is not removed from the solvent by ordinary filtration or by the garments. Once introduced into the solvent, it imparts to it uniform and lasting soil removal ability which does not vary from load to load. This contrasts sharply with the conventional soaps which are often completely removed by filtration or absorbed by the garments even before a single cleaning cycle is completed.

Q. WHAT GIVES NATIONAL CHARGE SOAP *PERFECT CHEMICAL STABILITY?*

A. NATIONAL CHARGE SOAP is compounded of neutral materials derived from petroleum. Unlike the fatty acid soaps, National Charge Soap has no tendency to break down during the cleaning cycle or to impart any acidity to the solvent.

Q. HOW DOES NATIONAL CHARGE SOAP LOWER *CLEANING* COSTS?

A. When ½ gal. of NATIONAL CHARGE SOAP is added to 100 gals. solvent, concentration of the Soil Removing Component in the solvent rises to such a high level that it would require up to 10 times as much of conventional soaps to match it. This unique property of National Charge Soap enables the plant operator to attain a quality of dry-cleaning unmatched by conventional soaps, at a surprisingly low cost.

Q. HOW DOES NATIONAL CHARGE SOAP *SIMPLIFY CLEANING PROCEDURE?*

A. The continuous presence of a high concentration of Soil Removing Component and the stable, high conductivity which NATIONAL CHARGE SOAP imparts to the solvent greatly simplify the dry-cleaning process. Thus fabrics which do not require moisture (whites, sweaters, overcoats and many types of drapes) are cleaned beautifully by merely running the load on the filter for 15 to 20 minutes. This simple procedure combines the total effects of a break, soap run, and rinse with the added advantage of profitable time saving.

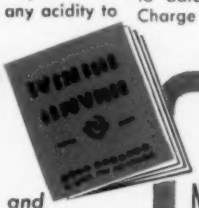
Q. HOW CAN *EXACT CONCENTRATION* OF NATIONAL CHARGE SOAP *BE DETERMINED?*

A. NATIONAL CHARGE SOAP TEST KIT enables the plant operator to determine within a few seconds the exact concentration of National Charge Soap in his solvent. It informs him how much of the soap he should add in case the solvent is undercharged. National's TEST KIT is the simplest and most practical kit for this purpose devised to date. It is furnished free with your initial National Charge Soap order.

NATIONAL
N. C. S.
CHARGE SOAP

WRITE TODAY for FREE BROCHURE!

Reveals the facts about a time and money saving method of drycleaning.



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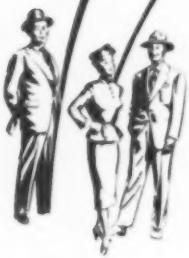

THE WELL DRESSED PREFER MARTINIZING

BECAUSE... garments are odorless
service is faster
colors are brighter
high temperature shrinkage
and set stains are
eliminated.

● The Martin 25-0 open end, one pocket drum makes loading and unloading easy and eliminates weighing of divided loads. Exclusive Powderless Filterstill saves solvent. No special foundation required because of patented vibration control. Labor is saved, uniform quality assured as the Martin is fully automatic. This UL approved system can be installed in most business districts. Write today for details on a single unit or a complete package plant.

Martin EQUIPMENT CORP.
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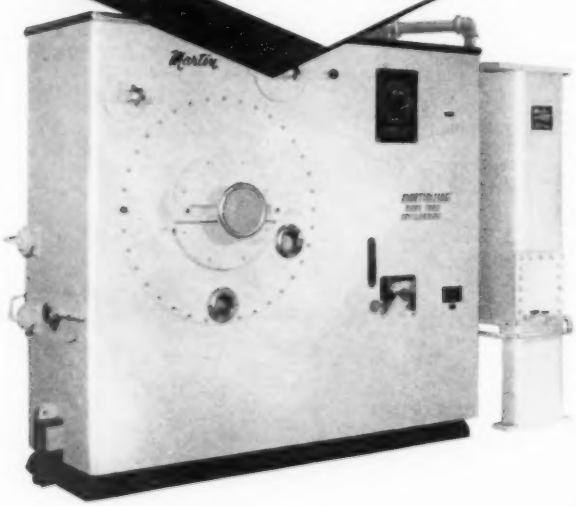

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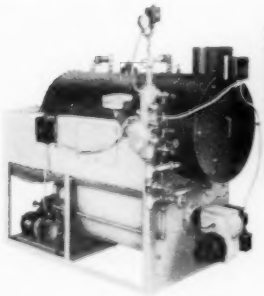
No Need To GIVE YOUR RIGHT ARM For A Better BOILER!

You'll be surprised how easy it is, and how little it costs, to replace your old-fashioned boiler with the best in the business. And you'll be surprised at how much you save when you do it. With a COLUMBIA HRT* Oil-Fired Boiler you'll get a dollar's worth of steam . . . **dry steam** . . . for every steam dollar you spend . . . day after day, year after year! Actual steam outputs, corresponding to the recommended firing rates determined by tests, prove that a Columbia HRT* will give you more steam per dollar invested and more steam per dollar spent for fuel!

The initial low cost, low maintenance, and proven higher efficiency of a Columbia Boiler make it a wise investment that'll make you money by saving money. Want to know more? Why not drop us a line today! No obligation, of course.



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Manufacturers of Columbia Oil Burners

COLUMBIA HRT* OIL-FIRED BOILERS

Complete high pressure steam power plants from fractional to 15 horse power units for oil firing, suitable for any make of gun-type oil burner . . . adaptable to any type of feedwater system.

*Horizontal Return Tubular type

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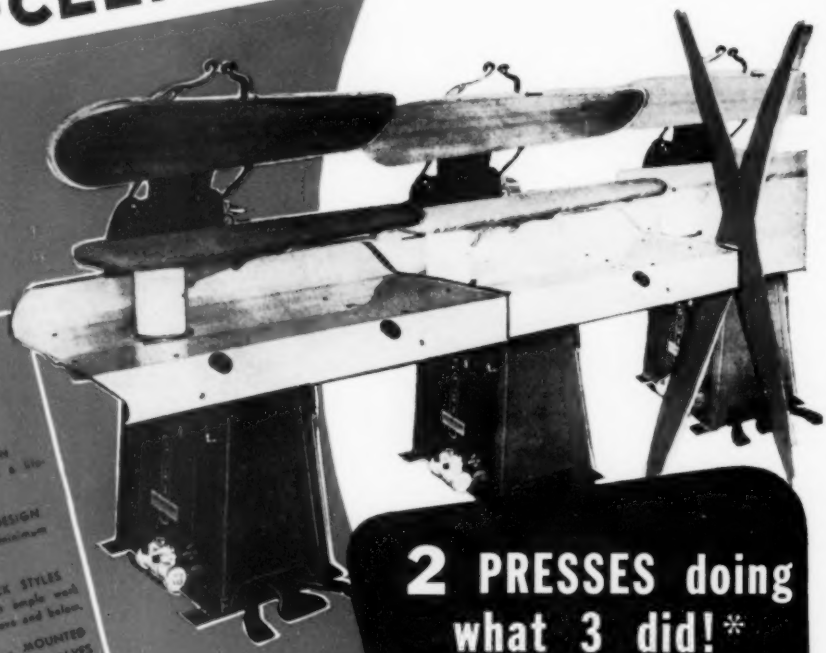

Exclusive Features:

- ALL-STEEL CONSTRUCTION —built to last a lifetime.
- COMPACT DESIGN —requires minimum floor area.
- FIVE BUCK STYLES —all with ample work areas above and below.
- CLAMP-MOUNTED DETACHABLE VALVES —vacuum, buck steam and head valves, all easily accessible, quickly removable.

2 PRESSES doing what 3 did!*

- ⅓ MORE PRODUCTION • FINER QUALITY
- INCREASED EARNINGS • LESS INSPECTION TROUBLE

Let Ajax *air-powered* presses speed up your production. A light touch on either table push button or the center foot pedal and the press does the rest—smoothly, quickly, effortlessly. Ajax *air-operation* outmodes any other manual press. See it! Try it! You'll want to buy it!

**Name of operating plant will be furnished on request.*

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Manufacturers of AJAX Presses since 1929

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Profits out of this world!

...FOR YOU

U-SAN-O IS USED AROUND THE WORLD

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- APPLIED IN THE WHEEL
- NO EXTRA LABOR COSTS
- NO SPRAYING

See you at BOOTH 96
N.I.C.D. Convention
St. Louis, Feb. 7-9

Hitch yourself to the U-SAN-O Star
Order from your Favorite Distributor or write direct to:

U-SAN-O
INSURED
MOTHPROOF
CLEANING
SYSTEM

Fully protected by United States and Canadian patents.

American
MOTHPROOFING COMPANY
711 NORTH EUCLID AVENUE • ST. LOUIS 8, MISSOURI

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"You've ruined my garment!"

• • •

Too bad, but the customer may be right! Continued cleaning does take away the sheen from today's garments. Life Products put the sheen back in! Hang two garments side by side, one Liferized, the other not. You'll see and feel the difference—*and so will your customers.*

LIFE Garment Silk Dressings—for all fabrics: silks, Celanese, gabardines, wools, furs and drapes. Gives a brighter, silky finish. Simply pour on wheel before or after introduction of soap on soap run.

LIFE Wet Wash Emulsion—for all washable fabrics. Makes fabrics look like new. No need to change your cleaning methods. Mixes with any soap and stays in suspension.

LIFE Dry Garment Sizing—for any garment. Easy to use. A real DRY SIZING.

LIFE Fabrics Dressing—adds lustre to laundered fabrics.

YOUR SATISFACTION GUARANTEED.

Try these LIFE Products now, and watch your customers' eyes shine with pleasure. Send us your order for a trial case of four one-gallon bottles or a 15-gallon drum. If you aren't thoroughly satisfied, return material and your money will be refunded on the unused portion.

Liferize

LIFE products are easy to use. NO CHANGE REQUIRED—USE WITH YOUR PRESENT SOAP. For Garment Silk Dressing, simply add four ounces to each load of garments under 50 lbs., 6 oz. up to 75 lbs., and 8 oz. up to 100 lbs. For other LIFE products, follow simple directions on label.

Manufactured by
LIFE Products Co.
1105 N. Water St.,
Milwaukee 3, Wis.

Order from

THOMPSON-HAYWARD

27 Greystone, Kansas City 8, Mo.

Suppliers to the Laundry and Dry Cleaning Industries Throughout the Midwest and Southwest

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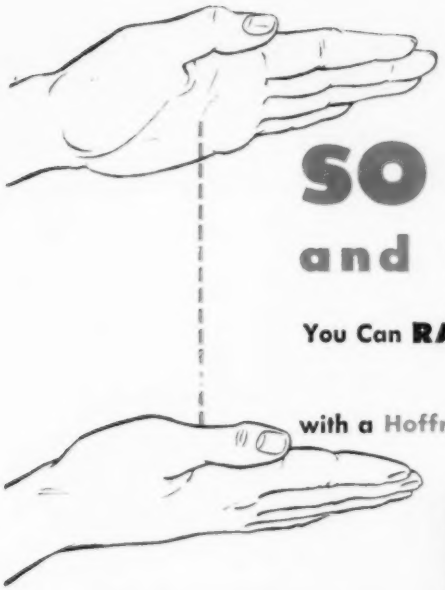
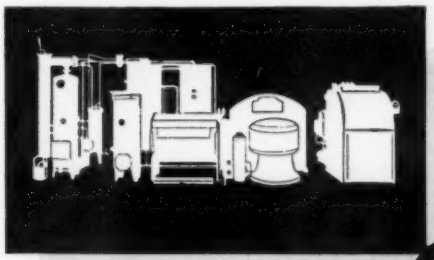


so big
and just no bigger?

You Can **RAISE CAPACITY**
to Match **EXPANDING VOLUME**
with a Hoffman 140 -F UNIT for Safety Petroleum Solvent



Your **HOFFMAN** Representative
is ready now to give you
the Facts for Your Present Location

Before your present system "just can't take anymore," look into the profit possibilities of a Hoffman 140-F unit. Flexible—can be added to, as volume grows . . . no need to invest in a complete new system. Permits petroleum safety solvent operation in commercial establishments . . . lower solvent cost. Handles all types of loads. Talk it over with your Hoffman representative—find out whether you're ready now to step up to 140-F.

HOFFMAN 140-F UNITS GIVE SAFETY SOLVENT CLEANING FOR LOWEST COST PER POUND. MODELS FOR LOADS FROM 35 POUNDS TO 200 POUNDS, FOR USE IN ANY COMMERCIAL BUILDING.

TOPS IN VALUE . . . SINCE 1905

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U. S. HOFFMAN MACHINERY CORP. 105 FOURTH AVENUE, NEW YORK 3, N. Y.

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THE ARROW P-22 HAND STAPLER

"Saves me thousands of dollars yearly . . . .

because DAY TAGS are securely attached to garments . . . thus preventing considerable garment loss. No wholesaler or chain operator should be without it."

Says Mr. M. JACOBS, treasurer of Nu-Boro Park Cleaners, Inc. Brooklyn, N. Y.

Don't risk garment loss with prong tags and other unsafe methods of tagging . . . attach tags the safe, secure way—staple them with ARROW P-22 Hand Stapler.

Tags stay secure to garments under the most rigid cleaning conditions.

Tags never tear garments upon removal, when stapled.

You save on tag costs — 50% cheaper than prong tags.

BUILT for LONG LIFE, VERSATILITY and EASE of OPERATION

- Deep throat for stapling in hard-to-get-at places.
- One hand operation makes stapling easy from any position or angle.
- Holds 150 staples — sizes 1/4" and 5/16" leg lengths.
- All-steel construction with chrome finish.

PROFITABLE SET-UP FOR JOBBERS
Write for full details

TAGS ON GARMENTS

HANDY TIME SAVER FOR OTHER FASTENING JOBS

SHOULDERETTES TO HANGERS

ATTACHING INVOICE SLIPS PLUS SEALING BAGS

ARROW FASTENER COMPANY, INC.
ONE JUNIUS STREET, • BROOKLYN 12, N. Y.

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DRISYN

Highly concentrated dry cleaning detergent that penetrates, releases and emulsifies soil, stain and fatty acids in a flash. It can be used in either Petroleum or Synthetic Solvent . . . with or without moisture. And one 5-gallon pail can clean as much as 16 tons of garments!

WETSYN

Concentrated liquid synthetic detergent and wetting agent for wet cleaning. Lowers surface tension, penetrates and wets all surfaces instantly. Wetsyn produces active, working suds in hard or soft water, acid or alkaline solutions of any pH.

NAPSOLV

Fast, powerful safe stain solvent for removing paint, gum, tar, marking ink, wax, oil, lacquer, lipstick, nail polish and similar stains.

COCHIN SEB

Concentrated, light, clear neutral jell-soap made from coconut stock, solvent and a synthetic wetting agent. Ideal for delicate fabrics.

COCOGEL

Vegetable oil soap made from coconut oil and other selected stocks. Mild, heavy-sudsing, quick rinsing, safe for all classifications.

FOAMSUDS

Concentrated, liquid coconut soap, especially popular for rug cleaning. Produces heavy suds, resists hard water.

WETSUDS

Synthetic detergent for use on board. Produces copious suds. Safe for all fabrics.

COLTEX

Cold water soap. Medium pH. For use in wheel for colored work. Safe for woolens or any fabrics that can be washed in the wheel.

Ask your distributor or write for further information

Distributor Franchises available in some territories. Inquiries invited

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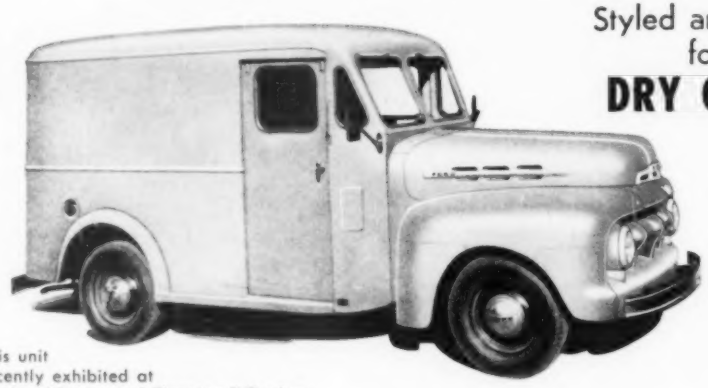
DRY CLEANER



This unit recently exhibited at National Institute of Cleaning & Dyeing Atlantic City

MODEL 405

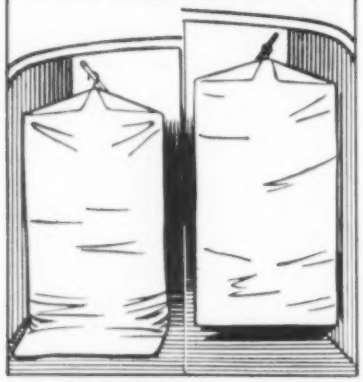
Width ... 58"
Height ... 57" (Center)
Length ... 75" (At floor)

Montpelier

Presents the New, Exclusive

Dry Cleaners' Delivery Unit

Need More Height for Those Longer Garments?



MONTPELIER Gives You that EXTRA HEIGHT You Need

ARRANGED ON

1/2-TON CHASSIS

of YOUR Selection

New Styling, New Beauty

Montpelier has designed these new Side-Aisle Bodies with modern clean flowing lines that give your Delivery Vehicles real "eye appeal" . . . building business prestige for you—while saving drivers' time and holding delivery costs to a minimum.

Greater Practicability, Convenience

MORE STOPS . . . LESS FATIGUE

Montpelier's Full Side-Aisle across driver's compartment — at running board level — provides more headroom, greater accessibility from either side. Bucket type seat on swivel pedestal, easy operating sliding doors with grab handles, and many other convenience features contribute to drivers' comfort and reduce fatigue.

PHONE, WIRE OR WRITE FOR FULL DETAILS

THE MONTPELIER MANUFACTURING CO., MONTPELIER, OHIO

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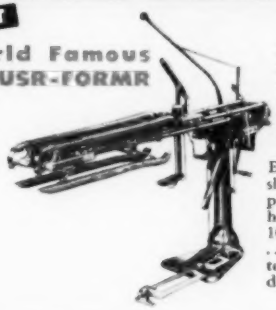
Build Your Business with *Bill Glover* PROFIT MAKERS

BEST

World Famous TROUSR-FORMR

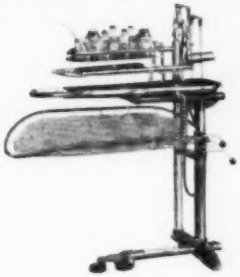


For wet cleaned pants. Stretches, shapes, removes wrinkles . . . all in four simple operations. Eliminates shrinkage. Cuts pressing time in half. More than 10,000 in use . . . many for fifteen years of daily service!

NEXT BEST

NEW Junior TROUSR-FORMR

A low priced stretcher. Makes wet cleans as easy to press as dry cleans. Fits a wider range of sizes from boys' to large—a smaller waist for ladies' slacks. Hardwood forms—no cloth to replace. Always ready to use—no preliminary warm-up. Blower for fast drying.



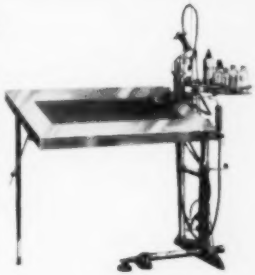
SPOTTERS SPOTTING MACHINE

Acclaimed by Spotters everywhere. The one and only Spotter's Spotting Machine . . . specially designed to meet all the requirements of spotters for higher quality work at a faster rate.

SPOTTING TABLE

for Woolens Only

Roomy top requires fewer lays. Easy, fast spotting, with handy steam gun and chemical tray. Adjustable height and tilt . . . for the convenience of any operator.



DRYERS and SEMI-FINISHERS

Exclusive Features—fast drying revolving top. Nylon brush clamps. Now internal steaming speeds production. Single Dryer shown—other models include the Twin and a Steam Turbine Triple.

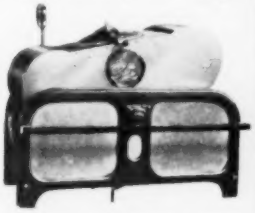
GLOVER FINISHING SYSTEM

Finishing Board (Steam and Vacuum)
Puff Irons (Double Cabinet)

Supreme in the field . . . built right to do the job right. Get better results in less time with less skilled help.

ROCKER WASHER

for Laundry—Dyeing
Wet or Dry Cleaning



Rocker action cleans cleaner in less time. Safe . . . no drop.

SEE YOUR *Bill Glover* JOBBER

Built for Long Life, Lowest Maintenance Cost

EXCLUSIVE BILL GLOVER DESIGNS . . . manufactured from quality materials by skilled and experienced craftsmen . . . assure long service life with the lowest maintenance cost. Cut your production costs . . . please your customers . . . with Bill Glover Profit-Makers.

Bill Glover, Inc.

5204 Truman Road
Kansas City 1, Mo.

Sr. and Jr.

THE RUG DRY CLEANING MACHINE ALL AMERICA HAS BEEN WAITING!

MAR-MAK *Is Here!*

MAR-MAK Guarantees

- No Shrinking
- No Fading
- No Water Soluble Sizing Disturbances
- Thorough Cleaning . . . Faster Drying

Can Be Seen at...

HENRY C. HARTENBACH INC.
RUG CLEANERS
301 S. GRAND ST.
ST. LOUIS, MO.

For Complete INFORMATION
BOOTH 363
N.I.C.D. EXHIBIT
KIEL AUDITORIUM
ST. LOUIS, MO.
FEB. 7-9, 1952

The Mar-Mak Rug Dry Cleaning Machine is sold on a protected franchise basis. For complete information, write or wire

MAR-MAK RUG DRY CLEANING MACHINERY MFG. CO.
626 N. LOGAN AVE. DANVILLE, ILL.

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supplies

Genuine

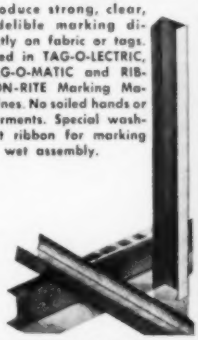
TAG-O-LECTRIC FIBEROLLS

Manufactured expressly for use with TAG-O-LECTRIC and TAG-O-MATIC Marking Machines. Ten colors and with color stripe for further color identification. Always uniform in size, weight, texture and quality. Cost no more than ordinary fiber paper. TAG-O-LECTRIC FIBEROLLS are consistently superior.

"Ribbonized Marking"

RIBBONS

Produce strong, clear, indelible marking directly on fabric or tags. Used in TAG-O-LECTRIC, TAG-O-MATIC and RIBBON-RITE Marking Machines. No soiled hands or garments. Special wash-out ribbon for marking at wet assembly.



TAG-O-LECTRIC STAPLES

Genuine TAG-O-LECTRIC Staples are made especially for TAG-O-LECTRIC precision stapling. These Genuine TAG-O-LECTRIC Staples are specified for use in TAG-O-LECTRIC Marking Machines and are required for guaranteed, trouble-free operation.

Avoid any cause for trouble with Textile Marking Machines . . . always use the supplies made and recommended for these machines.

TREMENDOUS SAVINGS in HANDLING COSTS of Identification and Assembly by One-Pass Marking and Stapling with

the New DUAL DUTY

TAG-O-LECTRIC

for DRYCLEANERS

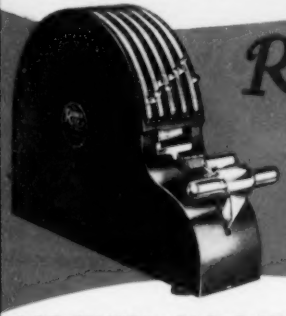
MAKES, MARKS and ATTACHES TAGS as fast as any operator can handle garments. Always ready for immediate use. Just set index tabs for any numbers, letters or code, place garment on pad of operating handle, make contact . . . and presto, the tag is made, marked and attached in less than a second. Tags precision-stapled to garments before leaving machine.

6-, 8-, and 10-character machines. Also available in a 4-character model for Lot System identification.

PATS. PEND.

TAG-O-MATIC TAG-MAKING and -MARKING MACHINE for DRYCLEANERS, Makes, Marks, Cuts, Ejects and Stacks Tags in split second operations. Any numbers, letters or code up to 10 characters.

Fast identification for add lots or for the busy marker. No waste, no loose tags to confuse marker. Gives you 1,000 or more tags (6-character) from one quick-change TAG-O-LECTRIC FIBEROLL. 6-, 8-, and 10-character machines.



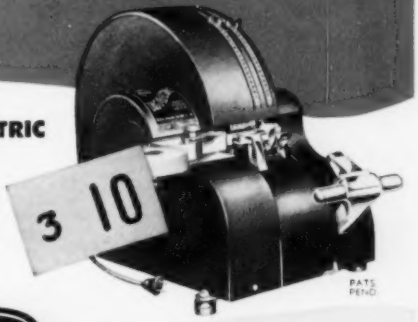
RIBBON-RITE MARKING MACHINE for LAUNDRIES

Prints like a *Ribbon* and is *Always* Ready!

Clear, sharp, indelible marking. No smudged or filled-in letters. No fuss, no mess, no smears, no inking problems. Quick-set index tabs for numbers, letters or code. 6-, 8-, and 10-character machines.

LOT-SYSTEM TAG-O-LECTRIC

Now laundries can afford tag identification . . . fastest, simplest, and most economical identification for shirts, bachelor bundles and family work. Ask your jobber, or write factory about color lot-system for laundries! Save 8,000 handling motions on each 1,000 pieces.



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see your jobber or wire or write factory

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THE TEST OF TIME

Proves the *Extra Value* of Kisco Boilers and Heating Equipment

Saving Steam Since 1928

KISCO Return To Boiler SYSTEM

Saves Fuel, Water, Labor, and Prolongs the Life of Any Boiler

Reclaims BOTH high and low pressure condensation and feeds HOT make-up water to the boiler automatically. It assures both a uniform water level and steam pressure, plus protection.

Operates Automatically and Requires no Steam for its Operation

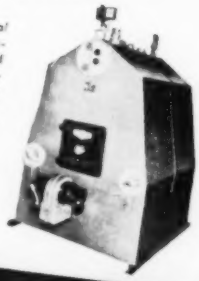
Write for Catalog BRS-2

Every User A Booster

KISCO "Steematic" Vertical Boiler

Simple, Compact, Automatic Boiler for Any Type Fuel or Firing Device

"A - Type" vertical water tubes give positive circulation and fast steaming. Refractory baffles give maximum heat absorption and reverse the flow of hot gases over the tubes. Sizes 10 to 60.



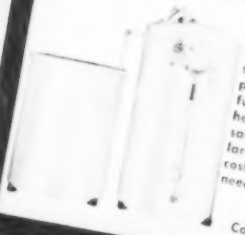
Write for Catalog BSA-2

KISCO

For Utmost Reliability

KISCO "Abso-Soft" Water Softener

Provides Countless thousands of Gallons of Pure, Rain-Soft Water



Soft water prevents the formation of scale in boilers and pipes and reduces fuel costs due to free heat transfer. Also saves countless dollars in reduced soap costs. Sizes for every need.

Write for Catalog BWS-2

Designers and Manufacturers of Boiler Room, Heating and Ventilating Equipment Since 1928

Thousands In Use

KISCO "Q-T" Heat Recirculators

Easy to Install in Your Present Steam Lines for Most Efficient, Economical Heating

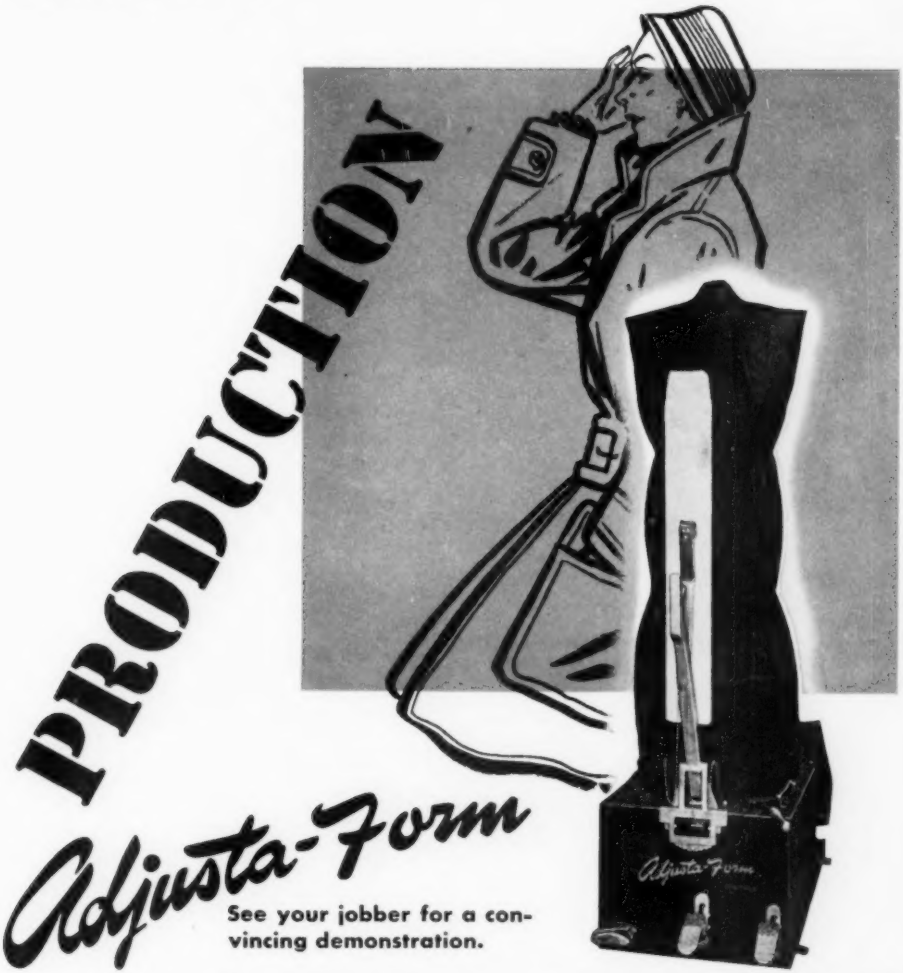
Powerful, ruggedly built Unit Heaters, constructed for high pressure operation. Motors are rubber mounted and have new, improved overlapping fan blades to assure quiet operation.

Write for Catalog BUH-2

KISCO BOILER & ENGINEERING CO.

2414 DE KALB ST. ST. LOUIS 4, MO.

Steam-Air finishing offers that extra PLUS in quality finishing.



See your jobber for a convincing demonstration.

Fine gabardines, smartly tailored woolens and other ***hard to finish*** garments slow up production in the finishing room. Today, more than ever, increased production is essential to meet rising costs.

The Adjusta-Form method of steam-air finishing offers increased production with an extra PLUS in quality.

ENGINEERED AND MANUFACTURED BY

WICHITA PRECISION TOOL CO., INC.

450-E NORTH SENECA • WICHITA, KANSAS

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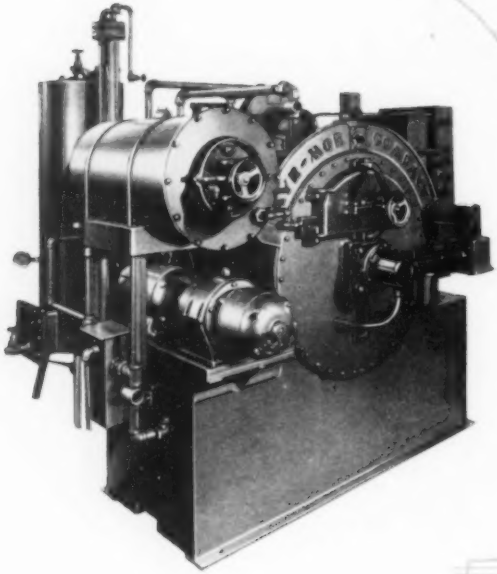
More **NET PROFIT** *in synthetic dry cleaning with the new*

AYR-MOR COMPACT



No other dry cleaning unit gives you all these features . . .

- ★ Handles up to 45 pounds per cycle load.
- ★ Saturated garments are never handled by operator, reducing hazards of toxic fumes.
- ★ High speed extractor gives proper operation speed with minimum of vibration, requiring only normal foundation structure.
- ★ Monel Screen Tubular Filter is automatically cleaned daily, no more messy, troublesome, cleaning by hand.
- ★ 80 gallon still equipped with scraper cleaner assures clean solvent and reduces solvent costs.
- ★ Only unit with vacuum reclamation system.
- ★ Maximum air recirculation through garments reclaims more solvent.

45 pounds in only 25 minutes!
More pounds per solvent drum!

Your net profit on dry cleaning depends to a large extent on your labor cost per pound and your solvent cost per pound. The new Ayr-Mor Compact is especially designed to reduce both of these major cost factors.

Now at last, you can get high speed washing, extracting and reclaiming. In 20 or 30 minutes up to 45 pounds of soiled clothing can be washed, extracted and aired—in one single operation. Operator merely presses button to start. A red signal light goes off when the cycle is complete. Solvent is reclaimed and the cycle begins again. With this new unit even the unskilled operator can boost plant volume and cut operating costs.

20 years of research and experience have gone into the development of this new velocity air recovering system. This is one of the most complete and fastest recovery units ever developed. This new machine is manufactured for us by the Kling Bros. Engineering Works, one of the pioneer manufacturers of synthetic dry cleaning equipment.

FREE BULLETIN—Write today for our latest bulletin with complete details of this new Ayr-Mor Compact.

A few Choice Territories are still open for qualified distributors. See us at the National Institute of Cleaning and Dyeing Convention, Booths 258 and 260, St. Louis.

5727R

Ayr Mor
MACHINERY COMPANY
6546 NO. SHERIDAN ROAD, CHICAGO 26, ILLINOIS

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IT'S *EASY* TO SOLVE *ANY* CLEANING PROBLEM with Spix

Modern Research

CLEANING PRODUCTS

The Product	*What they will do for You*
DRI-TEX	The dry detergent for petroleum solvent. Produces maximum soil removal; reduces spotting and wet cleaning.
DRI-TONE	A very high quality concentrated soap. You add the solvent and water. Excellent cleaning at low cost.
SPIX STRATE	A detergent; add no water or solvent. Use straight. Excellent luster, soft feel, no shrinkage, no wrinkles.
KLOR-TEX	A detergent for chlorinated solvent that increases soil and spot removal.
TRUMP	Unsurpassed as a general oil spotter in dry or wet cleaning for a large variety of stains.
HAND BRUSHING SOAP	A quality, low priced, prespotter for imbedded soil, water marks and perspiration.
AL-BEX	A wet spotter for blood and all other types of albumin stains when steam spotting or wet cleaning.
BUMINOL	Removes blood and other albuminous stains with dry solvents—no water.
SOLVEX	An excellent airplane glue and finger nail polish remover. Solvent properties of acetone but does not dissolve celanese.
SPOTTING STICKS	Effective ink remover. Also active on fruit, light dye and metal stains.
VOLTEX	A safe volatile chlorinated solvent mixture for grease, oil, paint, lipstick. Excellent for mixing with Trump.

WRITE TODAY FOR MORE DETAILED INFORMATION

VISIT US AT

BOOTH NO. 801

ST. LOUIS, FEB. 7-8-9, 1952

Spix **PRODUCTS COMPANY**
119 Dahlem Street Pittsburgh 6, Pa.

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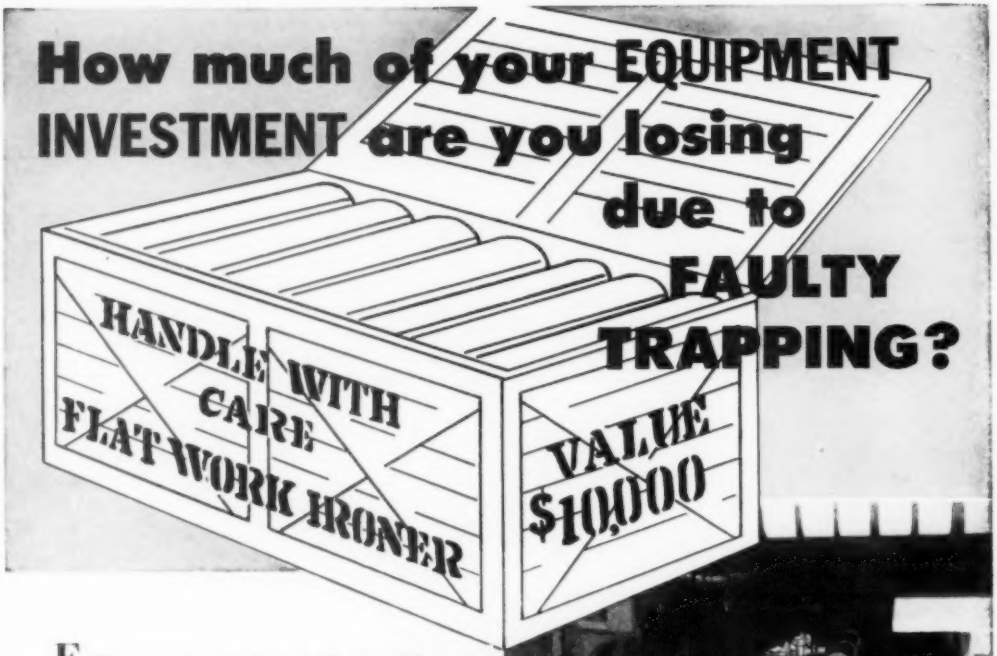
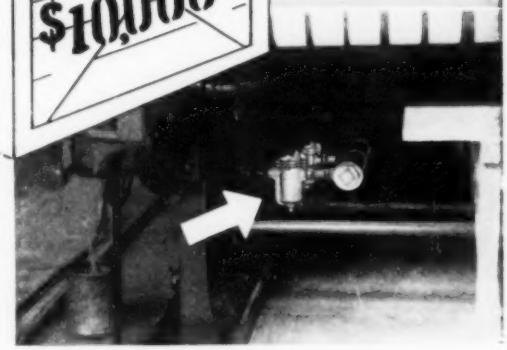
How much of your EQUIPMENT INVESTMENT are you losing due to FAULTY TRAPPING?





FOR example: it just isn't sensible to make a capital investment of $9000 to $10,000 in a flatwork ironer and then lose 10 to 25% of its capacity in trying to save a few dollars on steam traps for it!

Armstrong Unit Trapping never fails to give maximum ironer output. (Available records show an *average* production increase of over 20% where Armstrong unit trapping has replaced obsolete condensate drainage methods.) Figure that out over the life of a machine.

Armstrong Traps are noted steam savers, too. Fuel savings of 10% to 33 1/3% are common. You couldn't make a better investment than in the traps that are sold on a "satisfaction or your money back" basis.

Send for BULLETIN 193 and the name of your nearby Armstrong Representative.

PROOF!

30-35% INCREASE IN PLANT efficiency since installing Armstrong Steam Traps.—*Peabody Steam Laundry, Peabody, Mass.*

52 FEET A MINUTE ironing speed on sheets. This is *faster* than the manufacturer's rating of the ironer.—*Lincoln Laundry, Tampa, Fla.*

15% MORE OUTPUT after trapping all machines with Armstrongs.—*Sun Ray Cleaners, Chicago, Ill.*

ARMSTRONG MACHINE WORKS
850 Maple Street • Three Rivers, Michigan

ARMSTRONG *Inverted Bucket* **STEAM TRAPS**

Factory Representatives in 48 Key Cities . . . Traps Stocked at 147 Points

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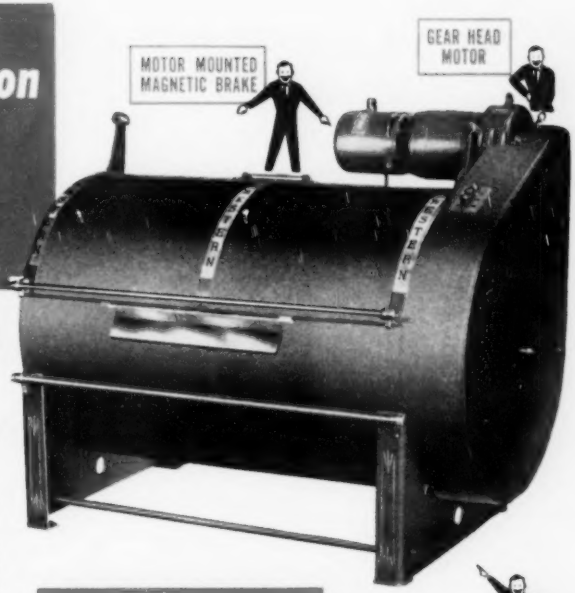
SIMPLEST, Push-Button DIRECT DRIVE WASHER



The WESTERN

MODEL 500

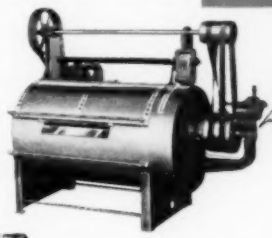
DIRECT Motor Drive

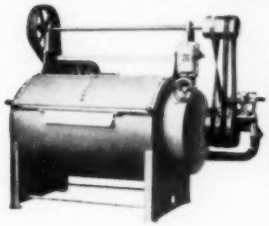
Why? Simplicity of design—entirely operated from Finger Tip Push Button Controls. Less moving parts—One end V-Belt Drive—No extra belts or countershafts to wear or adjust. Only 3 places to oil. No adjusting or replacing necessary for the duplex trunnion shaft seals. Rigidly mounted anti-friction type outboard bearings assure positive alignment. Metal cylinder with greater agitation. In 30 x 36, 30 x 48, and 36 x 54 in. sizes.

Other WESTERN Washers and Extractors to Suit Every Requirement!

Western Model 500 Belted Motor Drive

The easiest operated, most practical "One Hand Lever Control" Machine you can buy. Ruggedly built for lasting service. In 3 sizes.



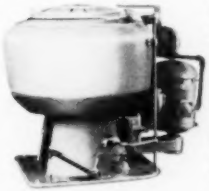


Western Model 50 Belted Motor Drive

Incorporates all the design of the Model 500 and many of the operating features. Choice of wood or metal cylinder. 3 sizes available.

Western Extractors

Solid curb. Motor driven safety equipped. 3 sizes, 20", 26", 30". Both laundry and drycleaning types.



Yes, the complete modern Western Dry Cleaning Washer and Extractor line offers any plant, anywhere, the size and type of unit needed to fit their requirements. Compare any Western-built machine for ruggedness, compare it for operating economy, compare for design and performance—then check the price. You'll be amazed and completely satisfied on what your dollar will buy when you buy Western—truly the equipment designed with the dry cleaner in mind. Get the full facts before you buy—compare Western equipment now.

Western Laundry Machinery Company

NORTH KANSAS CITY, MO.

10th & Fayette, Dept. NC, North Kansas City, Mo.
Please forward details on Western equipment as checked:

Model 500:
- ☐ *Direct Drive*
- ☐ *Belted Motor Drive*

Model 50:
- ☐ *Size* ____
- ☐ *Extractor Size* ____

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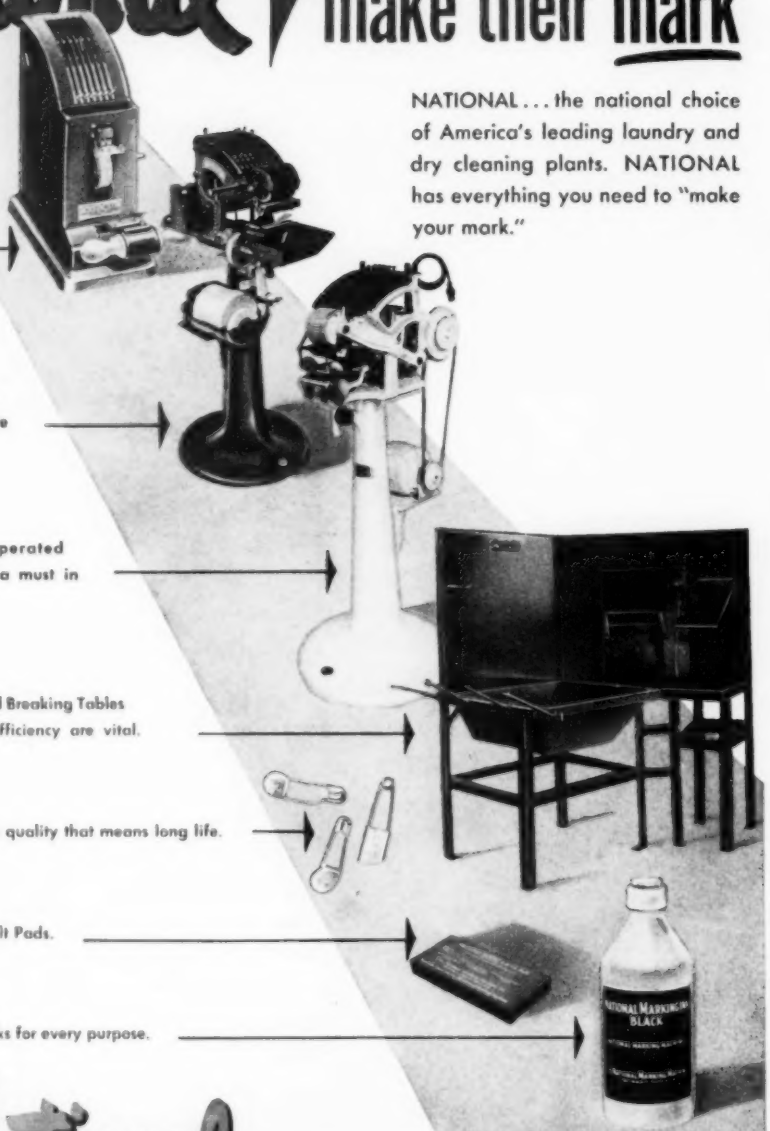
National products that make their mark

NATIONAL . . . the national choice of America's leading laundry and dry cleaning plants. NATIONAL has everything you need to "make your mark."



National Lever Principle Hand Marking Machines . . . standard equipment in small laundries.

National Power Tag-Making Machines . . . a favorite with large dry cleaners.

National Power - operated Marking Machine No. 8 . . . a must in large laundries.

National Marking and Breaking Tables . . . used where speed and efficiency are vital.

National Net Pins for quality that means long life.

National All-Wool Felt Pads.

National Marking Inks for every purpose.

THE National MARKING MACHINE COMPANY

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A "must" on your spotting board...

SPEEDS UP GENERAL SPOTTING

Don't waste time on hard-to-budge spots—get 'em out quickly, safely with *TarGo*...the spotter that takes up where others leave off. Use *TarGo* on these difficult or hard-set stains—Lipstick, Nail Polish, Oxidized Oil and Grease, Paint, Lacquer, Airplane Dope, Tar, Pitch, Grass, Ball Pen and Marking Inks, etc. Use it in *diluted* strength, also, to speed up run-of-mill spotting. Excellent for *"lipstick loads"!*

There's no substitute for TarGo
...order it by name from your jobber

For FREE Guide to the WILSON SYSTEM OF STAIN REMOVAL IN LAUNDERING, DRY CLEANING AND RUG CLEANING ask your jobber or write direct to
A. L. WILSON CHEMICAL CO.
Kearny, New Jersey

For Stain Removal that's certain and safe get on the

Wilson "GO" *Line*

- **YellowGo**
- **TarGo**
- **ColorGo**
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- **RustGo**
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you, too, can have this safeguarded steam supply

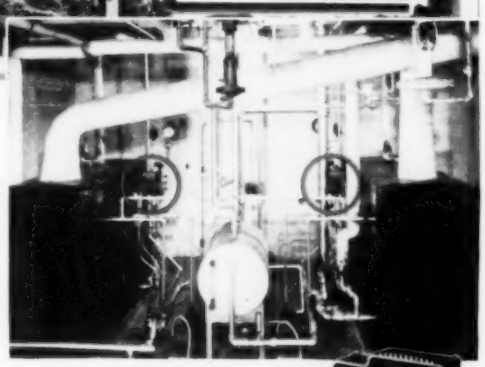
In a Los Angeles plant as modern as its product, Wm. J. Markowitz manufactures "Dresses of the Moment" under the respected label of "Jules California."

Turning out "Dresses of the Moment" in this snappy, competitive field calls for equipment that will operate dependably every moment of every day;—and none is more vital than the equipment producing the steam for pressing, processing and space heating. As Wm. J. Markowitz says in the accompanying letter, "any failure in this steam supply might result in interrupted schedules and costly plant shutdowns."

But there have been no such interruptions. Two modern Mund Boilers—each equipped with a modern McDonnell No. 150 Pump Control, Low Water Cut-Off and Low Water Alarm—are the reason. In the words of Mr. Markowitz "for over three and one-half years we have enjoyed one hundred percent dependable service from this equipment."

It actually costs you very little to have this complete freedom from interruption of steam supply—this complete freedom from worry about it. The McDonnell No. 150 or 157, illustrated here, controls the boiler feed pump as it *should* be controlled—*from* the boiler water level. So controlled, the boiler water level is held within the close limits that assure highest steaming efficiency and a resulting fuel economy that rapidly pays for the control. Along with this goes the security of complete boiler water level control—plus the safety of a low water fuel cut-off and alarm feature.

There is a McDonnell water level control for every type of boiler with every type of firing, operating at any steam pressure up to 150 lbs. Ask for a recommendation covering your particular conditions.



Exterior of "Jules California" plant and interior of boiler room showing two Mund self-contained steam generators equipped with McDonnell No. 150 pump control, low water fuel cut-off and low water alarm. The No. 150 is shown opposite. It is also available with integral water column, often the most convenient form for installing on existing boilers. Ask for details.

McDONNELL & MILLER, INC., 3500 North Spaulding Avenue, Chicago 18, Illinois

Doing One Thing Well

McDONNELL *Boiler Water Level Controls*

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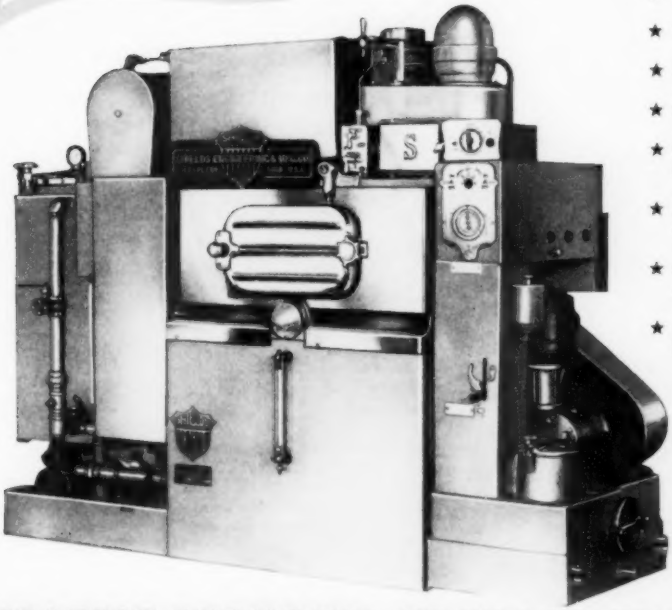
be sure . . . buy SHIELDS

the BEST synthetic DRY CLEANER with recovery



Features

- ★ 50-pound load capacity.
- ★ 40-minute cycle.
- ★ Washer, cylinder, condenser of Monel metal with bronze fittings.
- ★ Vibration-proof construction.
- ★ 1800-GPH Continuous filtration.
- ★ 40-GPH Independent distillation.
- ★ 2½" dump valve.
- ★ Simplified, easy filter change—Muck taken out dry.
- ★ Injector emulsifies soap and solvent.
- ★ Economical, fool-proof and automatic operation.
- ★ Extra reserve tank for rinsing and balancing solvent in system.
- ★ All parts easily accessible without dismantling unit.
- ★ Rugged, compact unit operates quietly under critical load conditions.
- ★ A PRIZE PACKAGE delivered completely assembled—34" x 88" x 78" high—enters through 35" door opening.

GREATEST ECONOMY-OF SPACE, TIME AND LABOR

Easy Operation—Washes, Drains, Extracts, Recovers Solvent and Dries Garments in Continuous, Automatic Cycle—while operator does other useful work.

Remember, with SHIELDS R-51A AUTOMATIC CHAMPION PERCHLOR UNIT Garments Go in Dry and are Taken out Dry.

COMPARE AND YOU'LL BUY A SHIELDS—THAT'S WHAT MANY LEADING DRY CLEANERS ARE DOING

NO INCREASE IN PRICE!

SHIELDS PERCHLOR UNIT

Shields ENGINEERING AND MANUFACTURING CO.

ESTABLISHED 1915

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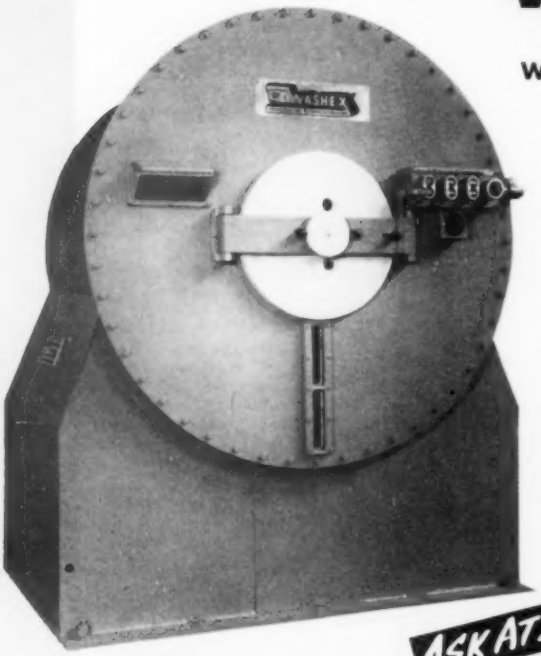
CUT CLEANING AND IN

with the

WASHEX

COMBINATION WASHER—EXTRACTOR



NEW "100" UNIT PERFECT FOR ALL SIZE CLEANERS!

How much could YOU save if you *eliminated* all the waste motions and extra steps of stopping your washer, opening it, lifting out soaked garments, carrying them to an extractor and starting it up? Would you save 50%, 60% or even up to 80% of your labor costs?

You CAN save that—AND MORE—with a WASHEX Combination Washer-Extractor. This new "100" unit WASHEX means that even the smallest plants can now benefit from all of the "push button" features that have made WASHEX standard equipment in efficient dry cleaning plants throughout the world. Write for Free catalog T-21 for full information.

ASK AT... BOOTH 302
N.I.C.D. Convention
in St. Louis, Mo.
for your FREE invitation to visit
MORGENTHALER'S CLEANERS
where you will see the new "100"
WASHEX in operation!

WASHEX
COMBINATION WASHER-EXTRACTOR
TRADE MARK

FABRIC LAUNDRY & DRY CLEANING MACHINERY CORP.
192 Banker St., Brooklyn 22, New York.

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FILTRATION LABOR HALF!

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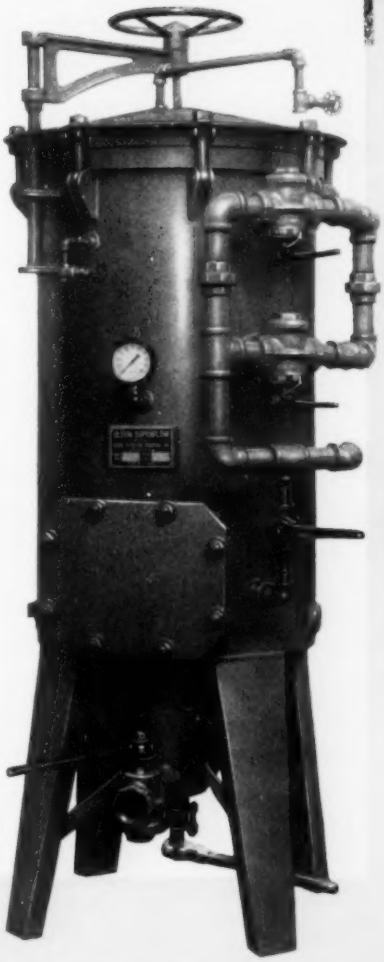
OLSON

TUBULAR SCREEN FILTER

TOTAL SHUTDOWN TIME:
3 to 4 *minutes* a day!

TOTAL WORK INVOLVED:
Turning 2 valves!

Compare *that* with YOUR method of cleaning filters, and you'll see why OLSON Tubular Screen Filters are the most talked about, most wanted filters in dry cleaning history. *Yet*, in spite of their extreme simplicity and ease of operation, OLSON filters still give longer cycles and more crystal clear filtration than ever before! This combination gives you higher efficiency and lower operating costs than ever before possible . . . . with real *dollar savings* that you can put in the bank! Write today for full information about how YOU can save with OLSON filters and stills.



ASK AT... BOOTH 300
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MORGENTHALER'S CLEANERS
where you will see the OLSON
Tubular Screen Filter in operation!

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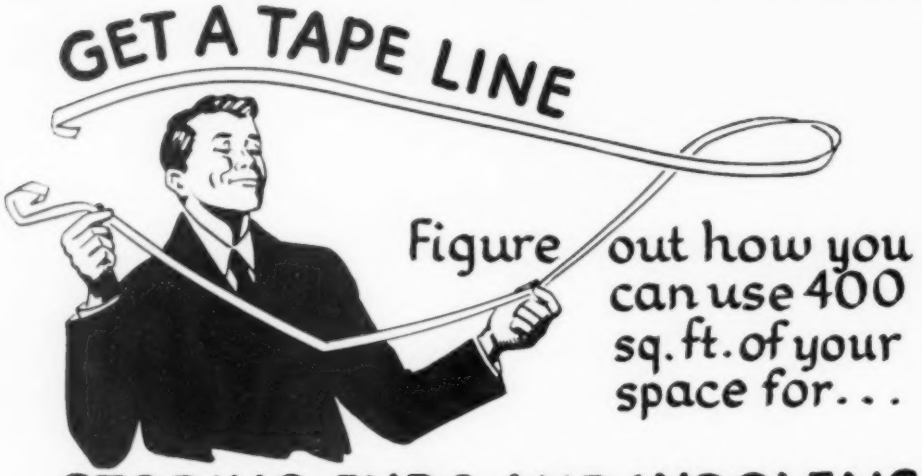
TURN SMALL SPACE INTO PROFIT



STORING FURS AND WOOLENS

Hundreds of small plant operators find unusual profit from small space and small capital investment. For example: In a space 20′ x 20′ x 7½′ you can safely store enough fur coats and woolen garments to bring in over $3,000 per season in storage alone. You can outfit a storage space like this for as little as $1245.00, including a HAERTEL STORAGE-MASTER.

Don't wait longer to get into the storage business. Remember that the Haertel Company will be glad to arrange convenient terms. Haertel engineering know-how is available from the start, and thereafter, whenever you need help. Write today for all the facts!

Meet us at the St. Louis Convention of N.I.C.D.
BOOTHS 450 and 452, Feb. 7-9

WALTER HAERTEL COMPANY 2840 FOURTH AVE. S., MINNEAPOLIS, MINN.

Walter Haertel Company, 2840 Fourth Ave. S., Minneapolis 8, Minn.

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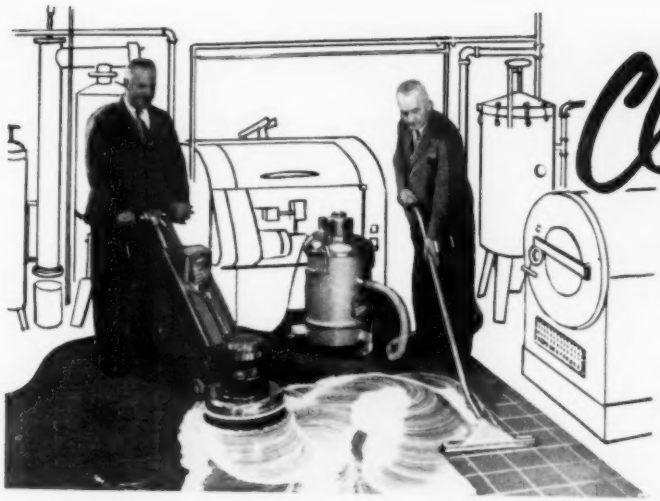


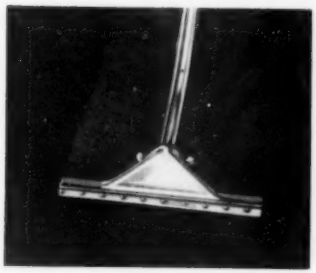
Clean up WITH HILD MAINTENANCE EQUIPMENT

A spic-and-span plant is your best advertisement. It attracts new customers and keeps the old ones coming back. Correct plant sanitation also boosts employee morale . . . prevents accidents . . . keeps garments and bundles free from dust damage. Keep your plant clean . . . from floor to ceiling . . . with the HILD Equipment pictured on this page.

HILD Shower-feed Scrubbing gets all kinds of floors cleaner . . . faster . . . easier. HILD Vacuum Drying eliminates rinsing and mopping . . . lifts dirty scrubbing solution out of cracks . . . drys floors almost instantly.

The same HILD Machine used for scrubbing floors also waxes, polishes, buffs floors of all kinds with easily interchangeable attachments.

"Sweeping" ceilings and walls with "Hi-up" extension on HILD Vacuum. No ladders or scaffolds needed. No shower of dust. Hild Vacuum also has attachments to remove lint from machinery.



Sweeping Floors "with Air." Hild Vacuum with Felted Sweeping Tool leaves no residue in low spots . . . draws dust and dirt out of cracks. No sweeping compound needed.

Clean up SHAMPOOING RUGS AND CARPETS

Start a profitable rug and carpet cleaning department *with the same HILD Equipment* used for plant maintenance. Send for free circular. "Rug Cleaning . . . the Business with a Future."

HILD Portable Rug Beater

Hild All-Auto-Matik Upholstery Shampoo Machine

$500 IN CASH PRIZES! Your old floor, rug or carpet machine may win in HILD'S 25th Anniversary "Oldest Floor Machine Contest." Send for entry blank.

1927-1952 HILD System MAINTENANCE EQUIPMENT & SUPPLIES OUR 25TH YEAR

HILD FLOOR MACHINE CO.
740 W. Washington Blvd., Chicago 6, Ill.

- ☐ Send circulars on HILD Plant Maintenance Equipment
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- ☐ Send entry blank for "Oldest Floor Machine Contest"

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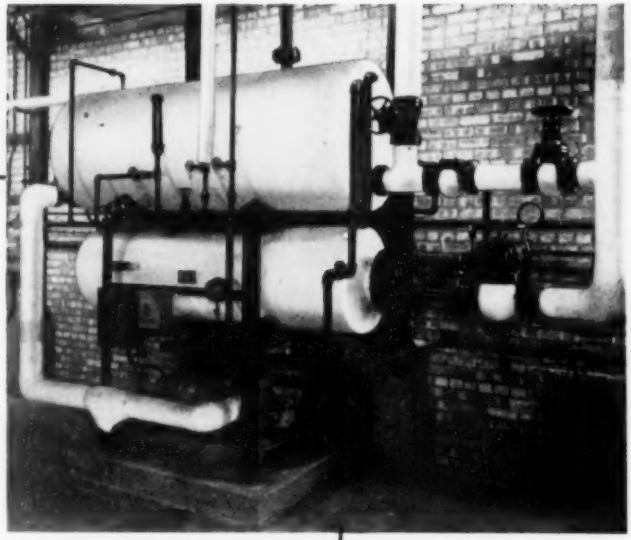
SCHAUB
BOILER RETURN SYSTEMS



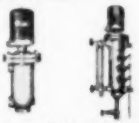
Schaub Heat Reclaim Boiler Feed System, Model S8C-D, at Chapman Laundry, Hammond, Ind. 350 HP boiler load; 125 lbs. W.S.P. (All process machines are equipped with Schaub "QUIK-TEMP" Metering Units draining to separate Schaub accumulator.)

You Get All These Features ...in a SCHAUB

Only Schaub offers you the combined exclusive *money-saving* features illustrated at the right. Any one of these alone would be a sound reason for buying a Schaub System over any other. Take time to compare details. Then you'll quickly see why Schaub gives you *more* for your money on *every* feature. In terms of real savings—you get improved operating economy, lower maintenance costs and longer equipment life. All this means your return system costs you less per year. Know the facts and you'll readily recognize that a Schaub Boiler Return System is your best value.

Schaub Master-Bilt Turbine Pump
Patented fleximatic shaft seals and pre-lubricated ball bearings mean no packing and no greasing—ever! When you install a Schaub Master-Bilt Pump, you can forget about it.

Chromosoid-Lined Receiver
10-year guarantee against corrosion. Schaub engineers developed Chromosoid lining by working with leading chemical researchers. You're protected from costly and premature replacements. No more rust-clogged systems!



Ultra-Dependable MAGNETROL Boiler Water Level Control
Combination pump-control and low water safety cut-off. Friction-free Magnetrol, assures boiler safety. No bellows to stiffen, no packing in head, no tricky electrode circuits to fail. All models approved by Underwriters' Laboratories, Inc.

Get the Facts! The complete story of how much more you get when you specify a Schaub System is quickly presented in Catalog 55. Write for your copy NOW—it's free!

Visit BOOTHS 109-111 at the N.I.C.D. Convention Feb. 7-9 St. Louis, Mo.

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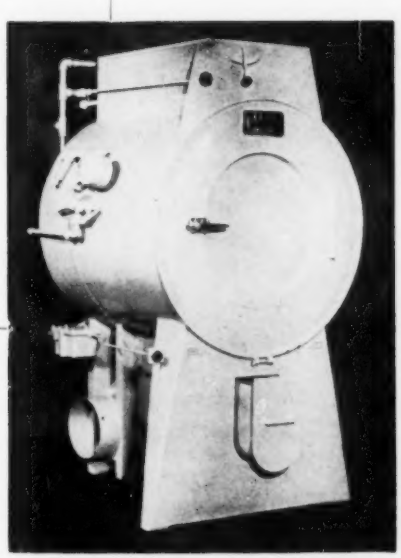
Better-Built

EQUIPMENT



TUMBLERS

with BUILT-IN LINT TRAP

- ***NO EXTRA CHARGE***
- ***QUICK AND EASY CLEANING***
- ***NO COSTLY INSTALLATION***
- ***FULL USE OF HEAT AT ALL TIMES***

PLUS

Cylinder V Belt driven through Reducer by individual motor.

Fan directly motorized permitting it to exhaust while loading and unloading.

LAUNDRY AND DRYCLEANING TUMBLERS

Sizes: 36" x 18" 36" x 24" 36" x 30"

Steam Tumbler starts at $405.00

Drycleaning starts at $455.00

SOLVO-MISER

The Solvo-Miser reclaims between 90 and 95% of your solvent.

It pays for itself in less than a year.

Production is doubled, even tripled, when used with a closed type synthetic cleaning machine.

Increases capacity.

Complete expulsion of fumes through efficient deodorizing system.

Condenser box made of stainless steel.

Model A—capacity 20 lbs. dry wght. **$1095**
Model B—capacity 30 lbs. dry wght. **$1195**
Model C—capacity 40 lbs. dry wght. **$1295**

N.I.C.D. Convention Booth 802

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HOW TO KILL 3 BIRDS . . . WITH 1 FILTER!

1 PUSH-BUTTON SHAKEDOWN

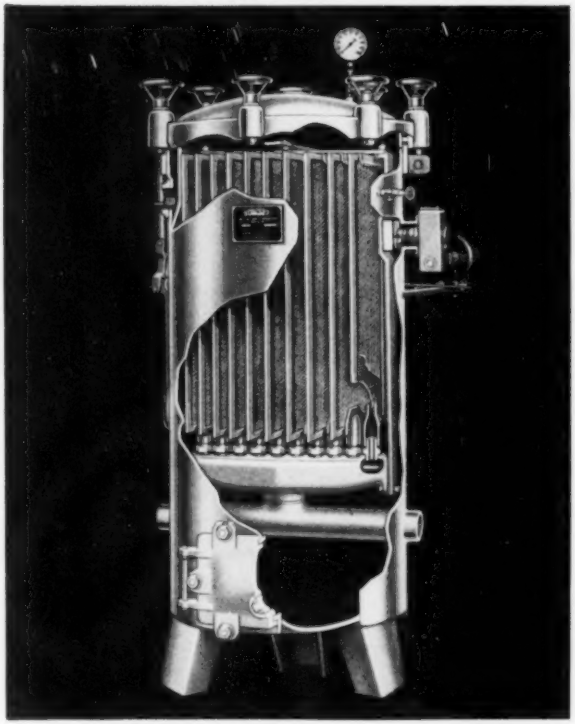
This Bowser Roto-Kleen filter saves many hours of backbreaking labor every week by motor-shaking muck down from the plates. No more plate-scraping . . . no backwashing!

2 SOLVENT SAVER

A turn of a valve applies air pressure to the sludge . . . releasing entrapped solvent . . . returning it to the dirty solvent storage tank. You save money every time you use it!

3 SLUDGE DRYER

Air pressure also reduces the sludge to dry, easy-to-handle segments . . . eliminates the drudgery that goes with removing a gooey mixture of solvent and sludge.



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BOWSER, INC., 1312 Creighton Ave., Fort Wayne 2, Ind.

• or call our nearest regional office • Atlanta • Chicago • Cleveland • Dallas • Kansas City • Los Angeles • New York • San Francisco • Washington, D. C.

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LIQUID CONTROL SPECIALISTS SINCE 1885

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FOR BETTER SERVICE, USE NEWHOUSE "ALL-IN-ONE" PRODUCTS—BUILT TO BETTER THE BEST

The New "Expendable" MARKING PEN

"The Sunbeam Silhouette"

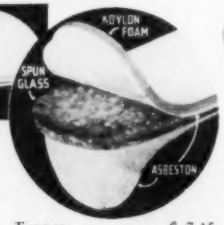
Non-refillable. Costs so little you simply throw it away when the ink is used up and take another. Lasts for thousands of markings. Indelible ink will not wash out in wet or dry cleaning. End refills, leaks, fuss and muss! Speeds marking time up to 60%.

ONLY
35c EACH
$3.00
PER DOZEN

No. 72 Spotting Brush Black Nylon $1.60 / White Nylon $1.70

Complete line of spotting brushes. Send for catalogue.

KOYLON FOAM PRESSING PAD



with 2-Way Insulation

New special Koylon Foam Pad—more firm rubber and double the air cells.

New 2-way Asbeston Insulation protects Koylon pad, spun glass and press cover from breakdown and scorching. Proven by laboratory and working tests.

Topper	$ 7.15
38-inch	11.55
42-inch	13.20
45-inch	14.85

Counter Model $4.50

Floor Model $4.95

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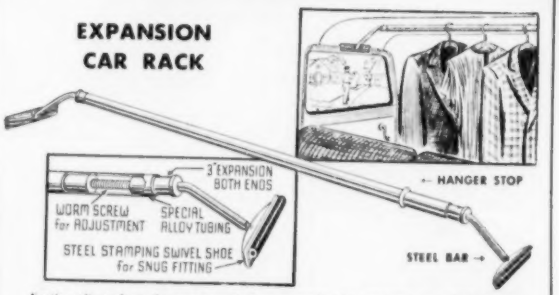
EXPANSION CAR RACK



Easily adjusted to fit any car in few seconds. No springs to weaken or break. Cannot harm upholstery. Price only **$6.95**

"ALL-IN-ONE" ZIPPER REPAIR TOOL

Wonderfully efficient. Repairs any zipper easily and quickly. Cuts costs. No experience necessary.

NOW ONLY $12.95

Talon Parts Repair Kit, $8.50

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Adjustable Garment Holder $2.25

Heavy-Duty Folding Clothes Basket

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Deluxe PRESS CLAMP

NOW $5.95

Easily "locked" in place on buck. New flat clamping bar. No wrinkling or buckling.

If your jobber cannot supply you, write us direct.

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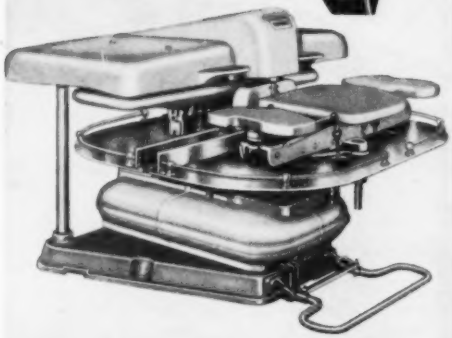
3-presses-in-1

WHY BUY THREE WHEN ONE WILL DO

Auto "TWIN-RAPID" GENERAL PURPOSE PRESS



ONE PRESS FINISHES ANY TYPE OF WEARING APPAREL

OCCUPIES LESS FLOOR SPACE . . . ONLY 6'x6' REQUIRED.

NO HEAT RADIATION. INSULATED HEAD RETAINS HEAT.

COMPLETELY AUTOMATIC. Bucks rotate by light touch on foot bar.

OPERATOR'S HANDS CONSTANTLY FREE FOR LAYING GARMENTS.

LITTLE FALLS LAUNDRY says:

"Attached is our order for ten additional AUTO TWIN RAPID GARMENT PRESSES . . . This order is probably the most eloquent way in which we can express the satisfaction derived from these presses . . . Your equipment fulfills a long-felt need in the laundry industry!"

SEE IT BEFORE YOU BUY!

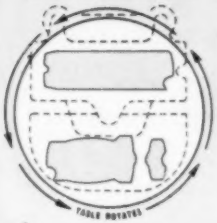
Auto "TWIN-RAPID" COMBINATION SHIRT PRESS

ELIMINATES THE ORDINARY 2 & 3 GIRL SHIRT UNITS.

NO TOUCHING-UP NECESSARY.

SHIRTS FOLDED STRAIGHT OFF THE PRESS.

TOP VIEW LOOKING DOWN

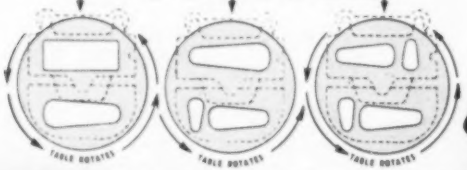


PATENTED AUTOMATIC NECKBAND BLOCK

BY POPULAR DEMAND comes with the new VERSATILE BUCKS shown on the left.

A "BUCK SET-UP" TO FIT EVERY NEED!

TOP VIEW LOOKING DOWN



and look!

Visit our Display . . . St Louis, Mo.

NICD CONVENTION BOOTH 263

MAIL COUPON TODAY for complete information . . . or see your jobber.

Without obligation, please send complete information on the Auto "Twin-Rapid":

☐ General Purpose Press ☐ Shirt Press

NAME OF FIRM _____

ADDRESS _____

CITY _____ STATE _____

YOUR NAME _____ JOBBER _____

JOBBER'S INQUIRIES INVITED

RELIABLE STEAM PRESSING MACHINERY, INC.

175 N BERGEN ST. · NEWARK 3, N. J.

Exclusive North Central States Distributor

EXCELSIOR MACHINERY CO. 1452 RANDOLPH ST., DETROIT, MICH.

Money Back Guarantee . .

on

BIXBEE No. 20

A NEW AND PROVEN PRODUCT

Tested by U. S. Testing Co., Test No. 895, Jan. 29, 1949

A MUST for Your Drycleaning and FUR Departments

Don't let burned, hardened, cracking, shriveled and shrunken furs and leathers baffle you. Save time, trouble and worry over damages caused by steam or in drycleaning processes.

Bixbee is the miracle product that has become a necessity in the fur industry for giving supple softness and renewed vitality to apparently hopeless pieces. Formula #20 has been created especially so that drycleaners can score that same success . . . without any technical training. It opens the door to satisfied customers and extra business . . . shuts the door against loss!

Gives New Life To

- **Fur coats and fur trims**
- **Mouton collars and sheepskin linings**
- **Jackets and other products made of suede and leather**
- **Restores, softens and repairs damages caused by steam and solvents**

BIXBEE RESEARCH

DIV. of BLAZEMASTER

56 South 11th St.
Brooklyn 11, N. Y.

Enclosed is my dollar, for which please send me the trial bottle for the approved BIXBEE #20.

Name _____

Street _____

City _____

ORDER FROM YOUR JOBBER NOW!

When writing to advertisers please mention The NATIONAL CLEANER & DYER

His business paper . . . of course

No man who takes his job seriously takes his business paper lightly. You'll find the **Best Informed Men in your Field** read every issue . . . straight through. They can't afford not to. Matter of fact, who can, in these fast-moving times? New ideas, new products, new methods, new techniques crop up one-a-minute. Today, change is the one thing that's certain . . . and when your own formula for change is a better job, a bigger profit, a more important place in the industry, you *need* the continuous touch with facts and news and "how-to" that only your business paper provides. The editors continuously scout the field for you; the advertisers report new products or new ways to use old ones . . . new profit angles . . . new sources for things you buy. Read cover to cover—with a sharp eye. That's what makes *you* one of the **Best Informed Men in your field,** too.

Did you know that this business paper . . . because it's a member of the Associated Business Publications . . . has some extras to offer you? It's a *paid*-circulation paper . . . which means the editors must keep their magazines well sold and well read. They get together continually in the Association . . . meet other editors in clinics, conferences and courses . . . work to make a good paper a better paper—to serve you in more and more ways. Your business paper is worth every minute you spend with it!

NATIONAL CLEANER & DYER

One of a series of advertisements prepared by THE ASSOCIATED BUSINESS PUBLICATIONS

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Profits for You..

the MULTI-CLEAN® way

Thousands of Rugs and Carpets NEED Cleaning...

Let Us Show You How

YOU can get into this Profitable Business in 1952. Only 10% of rugs and carpets in homes and business places ever are cleaned commercially. That leaves a big field for the established dry cleaner.

The MULTI-CLEAN Sales Aid Plan
will help you sell this additional service to your present customers, bring in new customers, and get repeat business.

Superior MULTI-CLEAN Equipment and Supplies
will do the kind of work that will satisfy your customers and make money for you. We will show your men how easily the MULTI-CLEAN Method—the proper combination of equipment, supplies and know-how—does the job quickly and efficiently. Only one set of equipment is necessary to do both on location or in the plant cleaning.

MULTI-CLEAN Rug Scrubbers and Wet or Dry Vacuums
are made in sizes to fit your particular needs. The on location and plant type scrubbers have bronze castings at all points of strain, heavy duty switches and sealed ball bearing gear reduction units. The powerful wet or dry vacuum motor is sealed against dust, dirt and water, and cooled by an independent built-in air circulating system.

MULTI-CLEAN products are sold and serviced throughout the United States and in Canada.

Send Coupon Today!

MULTI-CLEAN PRODUCTS, INC. **Dept. NC-2**
2277 Ford Parkway · St. Paul 1, Minn.

Gentlemen: Please send me more information about the MULTI-CLEAN Method and SALES AID Plan.

Name _____

Address _____

City _____ Zone _____ State _____

MULTI-CLEAN
PRODUCTS INC
2277 FORD PARKWAY ST. PAUL 1, MINNESOTA

RUG AND FLOOR MACHINES
CUSTOM CLEANING CHEMICALS • INDUSTRIAL VACUUMS • PERMANENT FLOOR FINISHES

When writing to advertisers please mention The NATIONAL CLEANER & DYER

How Can America Produce All the Steel It Needs ... for Military... and Civilian Purposes?

FREE BOOKLET Tells How to Conduct Scrap Salvage Program in *Your* Business.

Address Advertising Council, 25 W. 45th St., New York 19, N. Y.

One way is to feed more pig iron into the furnaces. But . . .

That will require *more* supplies of ore, limestone, coal, etc.*—to say nothing of more new ore boats and rail cars to transport the additional supplies.

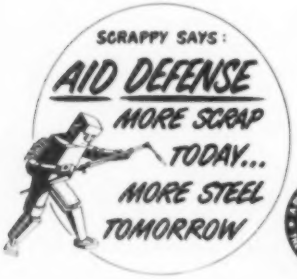
A better way—the *only* practical way—is to use the *dormant* iron and steel scrap lying around in the form of old machines, equipment, tools and metal structures.

Your business *must* have available scrap—in *some* form. That scrap is *needed* to keep the furnaces going in the steel mills . . . to keep our fighting forces and our allies well armed . . . to sustain our civilian life at home.

Think how many ways *you* use iron and steel. Think what would happen if it became extremely scarce. Put your iron and steel scrap to good use—now—by selling it to your local scrap dealer.

Don't delay—the emergency is becoming more severe every day.

*For every ton of scrap fed into the furnaces, we save approximately 2 tons of iron ore, 1 ton of coal, nearly ½ ton of limestone and many other critical materials. Also, scrap helps make steel faster, shortens the refining process.



NON-FERROUS SCRAP IS NEEDED, TOO!

This advertisement is a contribution, in the national interest, by

THE NATIONAL CLEANER & DYER

Cooperating with the Laundry and Dryecleaning Campaign

SELL YOUR SCRAP

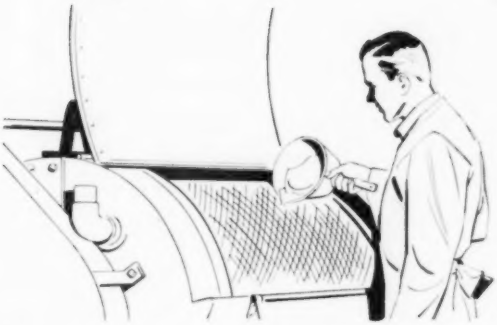
Send in your signed Scrap Credit Certificate to
LAUNDRY & DRYCLEANING MACHINERY MANUFACTURERS ASSOCIATION
95 Liberty St., New York 6, N. Y.

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Cleaner's Clinic

BY "DOC" FILTROL

Rx



PRESCRIPTION FOR PRECOATING

Precoating of filters, although elementary, is of prime importance to good filter operation. The precoat protects the screen or bag surface and allows free solvent flow without permitting screen openings to become plugged with hard-to-remove dirt, lint or grease.

SUGGESTED PROCEDURE

Screens should be scraped down or back-washed nightly. To precoat: fill washer to normal level, start washer, add filter powder to washer in correct amount, agitate for a few minutes, open system to filter and allow to circulate until both sight glasses are clear plus about 5 minutes. System is now ready for operating.

The following points should be observed in obtaining and maintaining an adequate precoat: (1) Use DC FILTROL—the "ALL PURPOSE" filter powder. (2) Start with clean system—bags and screens particularly. (3) Use enough filter powder. (4) Operate filter pump continuously—by-pass recommended. (5) Add powder at slow even rate—see "Suggested Procedure" above. (6) Precoat daily—or whenever pump has been stopped.
In general, for precoating, filters require about 10# filter powder per 100 sq. ft. of filtering surface—3-3½# per 1000 GPH filter. When using DC FILTROL, use amounts in following table:

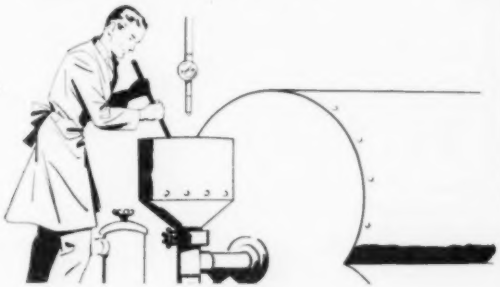
1000 gph —	3	lbs
2000 gph —	4½	lbs
4000 gph —	7	lbs
5000 gph —	8	lbs
8000 gph —	12	lbs

1 = DC FILTROL — 1 quart

One of a filter powder's most important functions is that of providing a good precoat. When you use DC FILTROL on the precoat and with each load, you assure yourself of efficient filter operation while completely protecting bag or screen surface. Ask your distributor today for DC FILTROL.

POWDER ADDITIONS WITH LOADS

After all the necessary precautions have been taken to insure a proper precoat attention must then be directed to the maintenance of a free-flowing filter cake. This may be accomplished by making sure that the insoluble soil which is removed from the garments is thoroughly dispersed with additional quantities of filter powder. Otherwise, this insoluble soil tends to form an impervious layer upon the filter cake surface with accompanying high filter pressures and lowered flow rates.



SUGGESTED PROCEDURE

Filter powder should be added in the proper amounts just before the rinse cycle for every load of garments. In the event that the continuous system is in use, this addition should be made during the first few minutes of the cycle. In general approximately 1 lb. of filter powder for each 50 lbs. of garments in the wheel will be sufficient. Caution: Additional quantities of filter powder should be used whenever other than normal quantities of soap or prespotter are being used.
It is recommended that filter powder be added through the button trap or a special powder trap. In this manner the filter powder never touches the garments and the danger of dusting is completely eliminated. When powder is added through the powder trap, care should be taken to insure that air is not allowed to enter the system, because its accumulation in the filter tank may cause splashing and swirling which tends to remove the filter cake.

Doc

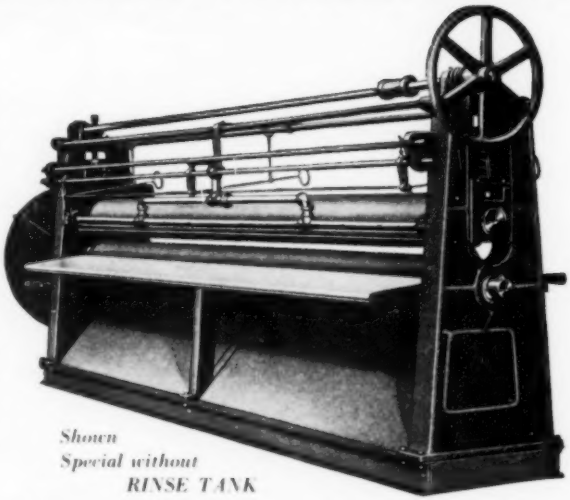
Filtrol CORPORATION
727 West Seventh Street, Los Angeles 17, California
Plants: Vernon, California; Salt Lake City, Utah; Jackson, Mississippi

*T. M. Reg. U. S. Pat. Off.

THE BERTSCH RUG WRINGER

COMPARED TO A VACUUM DRYER: Wringers reduce cleaning costs 70 to 75% because of savings in labor, power, dry room heat and water consumption. Wringers double your scrub floor and dry room output. In addition they make rugs cleaner, eliminate bleeding and lay nap evenly.

COMPARED TO COMPETITIVE WRINGERS: BERTSCH Wringers have heavier and better materials thru-out, therefore extract more water resulting in shorter dry room time, require less maintenance expense and have longer life. Our machines give you more service and life for your dollar and in addition are actually lower priced because of our manufacturing equipment and because we sell direct to the user.



Shown Special without RINSE TANK

BERTSCH & CO. EST. 1879 INC. 1911 **CAMBRIDGE CITY, INDIANA**

Designers, Builders, Distributors of special heavy machinery

Laundry and Garment press makers **install presstite 9 to 1**

If your machine isn't among the 90% of all laundry and dry cleaning pressing machines already equipped with Presstite*, the most popular of all flexible metal steam connectors, ask your jobber about it now. For older-style machines use Steamtite* connectors, specially designed for presses originally fitted with swing joints. Write for Bulletin L-173 with selection chart. The American Brass Company, American Metal Hose Branch, Waterbury 20, Connecticut. In Canada: The Canadian Fairbanks-Morse Company, Ltd.

*Reg. U. S. Pat. Off.

American	Pantex	Prosperity	Troy	U. S. Hoffman

ANACONDA

wherever connectors must move... **American**

FLEXIBLE METAL HOSE AND TUBING

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Sales Promotion Tips

... For BERLOU Mothproofing Dealers

"Grasshopper or Honey Bee?"

To "sell 'em—you gotta tell 'em"! Your prospective customers will never know what you can do for them unless you tell them about your prices, your quick service, your special attention to details, and such services as Berlou Guaranteed Mothproofing. Every business should have some logical, systematic plan for advertising and a definite budget should be established for this purpose whether you use newspaper, radio, direct mail, pocket stuffers or personal contact. But, don't have your advertising hop around like the grasshopper. When you plan your advertising, be like the Honey Bee, set your sights on one goal at a time and try to accomplish it in the easiest, most practical manner possible.

FEATURE YOUR PROFITABLE SERVICES

Your best bet is to feature the services on which you can make the most profit. Since profits run as high as 300 to 400 percent on Berlou Mothproofing it is logical that you can devote a sizable portion of your advertising budget to building your Berlou volume. In order to help our dealers to promote their Berlou business, we provide mats and copy for tested, sales producing ads which dealers can run in their local papers on a cooperative basis. Berlou also provides a variety of radio spot announcements which have proven especially effective in building volume sales.

In your town there are thousands of persons who have seen our national advertisements in such magazines as WOMAN'S HOME COMPANION, HOUSEHOLD, LADIES HOME JOURNAL, AMERICAN WEEKLY, and BETTER HOMES AND GARDENS. These people know about the 5 year guarantee offered with Berlou Guaranteed Mothproofing. Ads which you place in your local paper or radio tell these prospective customers where they can get this popular service.

Berlou's cooperative advertising program has helped thousands of service dealers like yourself to greater profits. By paying a portion of the cost of the Berlou ads, we help finance your regular advertising program and help bring to your door many new customers who will take advantage of your other services as well. Berlou's advertising and promotion has consistently paid off for our dealers since 1930.

We have a helpful bulletin written by advertising experts entitled "How to Get the Most Out of Your Newspaper and Radio Advertising." If you would like a free copy just drop us a card and ask for Bulletin TP-2.

The BERLOU COMPANY

35 Blaine Ave.

Marion, Ohio

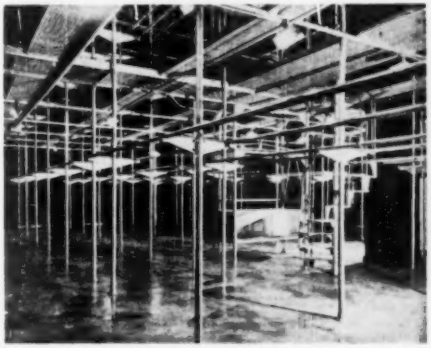
In Canada: The Berlou Co., Ltd., London, Ontario

Note: If you are not already a Berlou dealer, write for details of Berlou's Profit Builder Plan today, and learn how you too can increase your net profit from $1000 to $5000 in a single year.

30% OF THE N. I. C. D. PLANTS NOW HAVE A FUR STORAGE DEPT.*

HAVE YOU LOOKED INTO THIS PROFITABLE SIDELINE FOR YOUR OWN PLANT?

* From Ross Federal Research Corp. Survey, July 1950



Multiple tier installation with walkways, stairways and hoist.

THE Market Forge Company, originators of Standardized Storage Rack Equipment with the "MAFORCO" trademark provides a Free Consultation Service to answer your fur storage problems. *Without obligation*—our engineers will come into your plant, analyze your equipment needs so that you will have the best proper arrangement of racks for the number of garments stored.

FEATURES OF FUR GARMENT MAFORCO STORAGE RACK EQUIPMENT

- Utmost Simplicity
- Economy of Arrangement
- Low cost of Equipment and Installation
- Allows for Rearrangement or Relocation to Suit Changing Requirements
- All Parts Well Finished (No injury to garments)
- Simple Loading and Unloading
- Parts Not Attached to Building—Planned to be Self-supporting
- Equipment Hot Galvanized After Fabrication—a satisfactory proven finish

WHETHER YOU ARE PLANNING TO INSTALL A COMPLETE NEW STORAGE DEPARTMENT OR ADD HOIST INSTALLATIONS—MULTIPLE TIER OF WALKWAYS—WRITE US FIRST FOR COMPLETE INFORMATION—OUR CONSULTING SERVICE DIVISION IS AT YOUR DISPOSAL

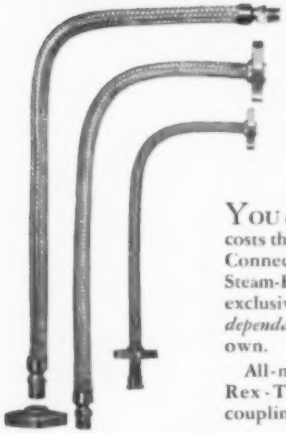
Complete line of accessory and allied equipment available including Garment Trucks, Muff Racks, Rug Storage Racks, Packing Tables.

Write us—it will be worth your while.

MARKET FORGE CO.

EVERETT 49 • MASSACHUSETTS

Short Cut TO MAINTENANCE SAVINGS



STEAM-FLEX BRONZE *press connectors*

YOU can trim press room maintenance costs the easy way with Steam-Flex Press Connectors. Top quality bronze used in Steam-Flex, plus corrugation-forming the exclusive CMH way, assures you of long, *dependable* life on every steam press you own.

All-metal, packless construction and Rex-Tite Heatproof Reattachable couplings are your assurance of freedom from steam or condensate leaks . . . And there is no aging or deterioration from heat or pressure with Steam-Flex! Installation of Steam-Flex is quick and simple, too. No special tools or skill required for replacing old connectors with reliable *bronze* Steam-Flex.

Write for details on Steam-Flex Flexible Metal Press Connectors today!

CHICAGO METAL HOSE Division

Flexon identifies CMH products that have served industry for over 50 years.

CMH

Flexonics *Corporation* 1306 South Third Avenue, Maywood, Illinois

Manufacturers of flexible metal hose and conduit, expansion joints, metallic bellows and assemblies of these components.

In Canada: Flexonics Corporation of Canada, Ltd., Brampton, Ontario

Don't "Rob Peter to Pay Paul" in Your Wet Cleaning!

Some synthetic detergents sacrifice safety in order to provide good cleaning action. Some are safe, but short on detergency.

There's a full measure of safety and detergency in Orvus Extra Granules. This multi-purpose synthetic detergent provides maximum cleaning power for the heavy soil applications which require it. Yet the unique type of builders used in making Orvus Extra provides full fabric safety for all soil classifications. The pH of an Orvus Extra solution is no more than the pH of an equivalent solution of mild neutral soap!

You can use Orvus Extra for almost every purpose. Does a grand job in the wheel or on the scrub table. Cleans "bleeders" efficiently in acid or salt solutions. Has the extra cleaning punch you need for wash trousers, reversibles and athletic uniforms. Gives excellent results in hardest water.

ORVUS EXTRA GRANULES

Procter & Gamble
CINCINNATI, OHIO

Orvus Extra Granules—the multi-purpose synthetic detergent

When writing to advertisers please mention The NATIONAL CLEANER & DYER

BOSTAG

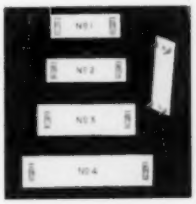
Preferred for 40 Years

TAGS of Quality, Durability

Quality: **Best materials and workmanship.**
Durability: **Non-fraying 80x80 count cotton cloth; high-grade *anchored* zinc staples.**
Special Finish: **Best writing surface for hand or machine marking.**

PEERLESS BEACON TAGS

Triple-fold 80x80 count cotton cloth, non-fraying. Special finish for easy writing for pen or machine marking. Staples are *anchored*, always firm with prongs straight, yet fully pliable for quick attaching and removing, *without damaging fabric*. Also fibre. 5 sizes. White and Standard Colors.



Also EXTRA LONG HALF TAGS cut straight or diagonally. SINGLE STAPLE TAGS.

TAGGING MACHINES

operate easily, simply — save time, labor, money.

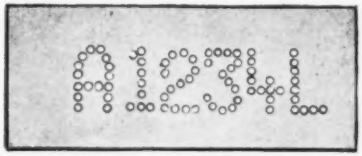
TAG-A-DAY TAGS

Plain—or printed with days of the week, Monday through Saturday. White and six standard colors. Highest quality 80x80 count cotton cloth; also fibre. Size 1 7/16" x 2¼", packed 1000 to box. Standard color set-up on days of the week:

MON: Blue — THURS: Orange
TUES: Red — FRI: Yellow
WED: Pink — SAT: Green
SPECIAL: White

Also Lavender, Gray, Tan
SPECIAL PRINTING, at nominal extra charge, may be had on any tag.

***Staple* TAG-A-DAY TAG.** Same as above—but with regular sturdy Peerless Beacon type staple at one end.



The Hub PERFORATING TAG

Indestructible—not affected by soaps, acids, gasoline, solvents, or boiling dye. White only.

No. 1: 1" x 2½" — No. 3: 1" x 3½"
No. 2: 1" x 3" — No. 4: 1" x 3¾"

ACE of SPADES INK

Intense jet black ink of highest quality. Free-flowing. Clean-marking. Impervious to action of strong solutions. Marks will not turn brown after laundering or dry cleaning. Quality and utility at low cost.

Sizes: 8 oz., 16 oz., 32 oz., 1 gal.

ACE of HEARTS INK (RED)

REDUX INDELIBLE INK REMOVER

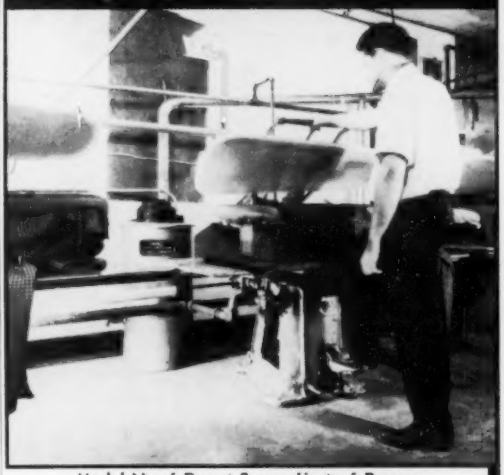
VISIT OUR BOOTH #255 at N. I. C. D. CONVENTION

Write for Descriptive Circular
All Fully Guaranteed

BOSTAG

BOSTON CLIP & TAG COMPANY
48 Grove Street, Somerville 44, Mass.

Press Garments 25% Faster!



Model No. 6 Dryset Serves Up to 6 Presses

Billmyre DRYSET

provides *more* and *better* production at much lower cost because . . .

Dries Garments Faster

Dryset draws a powerful current of dry air through the garment at high velocity. Dries it almost instantly—saves up to 25% in pressing time.

Improves Quality

Dryset leaves the fabric thoroughly *dried* and *set* while in its molded shape on the press buck. Garments are better pressed . . . retain their shape longer.

Dryset units like this model serve up to 250 presses.

Slashes Fuel Bills

Dryset uses no steam . . . saves as much as 50% of boiler steam required for old style steam jet systems.

Pays for Itself

In only a few months after installation, Dryset pays for itself in actual savings. Get all the facts —mail coupon today.

LAMSON CORPORATION, Billmyre Blower Division
459 Lamson St., Syracuse 1, N. Y.

Please send me your DRYSET Bulletins free of charge. I have (or shall have) ..... pressing machines.

Name .....
Company .....
Address .....
City ..... Zone ..... State .....

AT THE HEAD OF THEIR CLASS —*EACH ONE OF 'EM!*

LET THESE NEW AND EFFICIENT AMBER TOOLS GIVE YOU QUALITY WORK WITH —LESS ENERGY —FASTER

AMBER PRESS CLAMP

"The Indispensable Little Stretcher"

Latest Model **$5.95**

Patent No. 2,507,584

Now Finer Than Ever

- ★ Spring Steel Clamping Body
- ★ Adjustable Handle Hook
- ★ Powerful Expansion Spring
- ★ Renewable Cloth Cover

Stretch with Head Open
Use Both Hands

SELF EXPANSION PELICAN $6.50

Patents Pending

FINGERTIP LOCKING LEVER controls expansion when locking is desired.

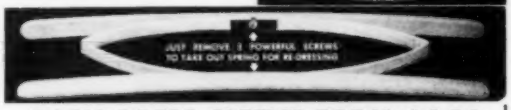
Easy Dress Sleeve Form Available in two models.
REGULAR—For Suits & Coats
SOFT—For Dresses

AUTOMATIC EXPANSION is provided by powerful spring enclosed in handle.

NEW—DESIGN
NEW—PRINCIPLE
NEW—PERFORMANCE

JUST REMOVE 2 POWERFUL SCREWS—and presto—out comes spring, ready to cover.

SPECIAL CUT-OUT IN SPRING provides for easy replacement of cover.



If your jobber cannot supply you—write us.

EASY DRESS SLEEVE FORM $4.50

AMBER MANUFACTURING CO. 607 S. UNION AVE., LOS ANGELES 17, CAL.

SOLVINK is Guaranteed to Remove Stains Faster or Your Money Back!

There's nothing to dissolve, no waiting with Solvink. Ink, rust, paint and blood stains disappear completely when you follow the easy Solvink directions.

Try this fast-acting liquid spotter today on a money back guarantee. Use Solvink safely on white or colored fabrics.

½ pint—2 solutions $2.25
For economy—Pints, Quarts and Gallons Available.

Order from your jobber today or on a money-back guarantee.

Write Dept. N-2 for free sample

YOU NEED SOLVINK COMPANION PRODUCTS

- **TANSOL** for Tannin Stains
- **GREENZYME**—Digestant
- **IODASE**—for Iodine Stains
- **SIZ-IN**—Hat Size

GREENVILLE CHEMICAL CO.

Corner of E. Stone Ave. & Bennett St., Greenville, S. C.

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Here's a product you can put to use profitably!

Make this test

SANA-FILTER LOW PRESSURE FILTER TYPE SOAP

speeds up CLEANING
reduces SPOTTING

☐ Tell Us More About Sana-Filter.
☐ Send Working-Size Sample of Sana-Filter.
☐ Send a Copy of Dry Cleaning Catalog.

NAME _____

ADDRESS _____

_____

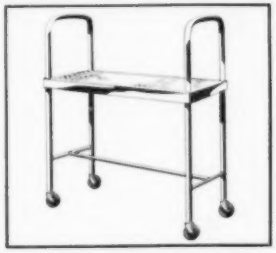
Get Sample

SANA-FILTER Low-Pressure Filter-Type Soap works wonders for cleaners. It's so fast that the cleaning run may be cut to just 10 minutes. Yes, it's possible to *increase volume with present equipment* nearly 60%. It reduces costly spotting. The finished job looks better, too! Sana-Filter is safe to use on all fine fabrics. No wonder thousands of cleaners are turning to Sana-Filter and the other quality cleaning products in the Huntington line.

HUNTINGTON

Huntington Laboratories, Inc. Huntington, Ind. • Toronto, Ontario

RESULTS is what counts



"200" Speed Cart

CUTS HANDLING COSTS 20%! Speeds flow of unfinished garments from marker to presser! Eliminates stooping and squatting over basket of tangled clothes. Cart tested for over 200 lbs. Makes crowded plant production flow. 37" long, 30" to bed, 19" wide. Beautiful grey enamel. Tough, easy rolling wheels.

Price: $29.50
FOB, Atlanta

One girl does work of two with this

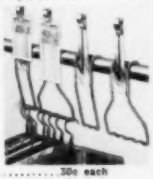
5-FT. ASSORTING REEL!

AUTOMATIC ASSORTING! Twice as fast as ordinary assorting. One girl does work of two! No confusion, no lost or misplaced garments. Holds up to 240 suits or 420 dresses. 16 ft. assorting space. ADAPTABLE TO ANY SYSTEM. Operator stands in one spot, turns reel with flick of finger. Reel won't wear out, tip or turn over. Sufficient supply of numbers or letters for any system.

Price: F.O.B., Atlanta..... **$89.50** (less hooks)

"You get results when you use the RIGHT HOOK"

10-DAY FREE TRIAL OFFER!



Full purchase price refunded if these hooks do not eliminate misplaced garments, speed assorting and save you time and money. Foolproof because ticket stays clipped to hook until garments are checked and bagged. Order today!

- Metal spring clip holds ticket straight in strongest breeze.
- Hook hangs less than 5½" below rail.
- Corrugated bar holds garments apart.
- Made in two handy sizes 4½" for 5 garments; 2⅛" for 3 garments.

100 or more Assorting Hooks..... 30c each
Less than 100 hooks..... 35c each
(100 hooks will service $500 weekly volume)

V & W Equipment Co.
664 W. Peachtree St.
Atlanta, Georgia

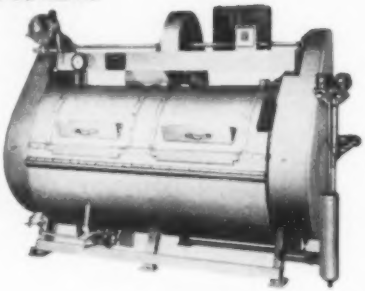
Order today!
5% cash discount

QUANTITY	ITEM	TOTAL PRICE
	Hooks (small)	
	Hooks (large)	
	"200" Speed Cart	
	Assorting Reel	

Firm Name _____
Address _____
City _____ State _____
By _____
Ship COD ☐ Check enclosed ☐ Open account ☐

WASHERS BUILT TO YOUR NEEDS!

LAUNDRY WASHERS



- ★ Available in Stainless Steel or Wood in Any Size required.
- ★ Belt driven or motor driven.
- ★ Ball Bearings throughout on all rotary parts.
- ★ Special Heavy Duty Adjustable Packing Glands.
- ★ Solution can't leak out through bearings.
- ★ Safety Door Switch.
- ★ Heavy Duty type motors for reversing washer service.
- ★ Welded Cylinder and Shell.

DRY CLEANING WASHERS

- ★ Heavy Duty All Metal Washers with Maple Unloading Shelves.
- ★ Motor driven or belt driven.
- ★ Special heavy duty adjustable packing glands.
- ★ Solution cannot leak out through bearings.
- ★ Heavy duty locks and keepers, adjustable to keep doors rigidly in place to prevent tearing of clothes.

Sold By Leading Distributors In Principal Cities

LAUNDRY MACHINERY CO.
1112 So. Kedzie Ave. Chicago 12, Ill.

The Mark Record Sheet

is a great check against inaccurate marking. Records the marks used in all bundles; permits location of lot for all marks

Prevents duplication of marks;
Avoids mixup of garments;
Aids and simplifies sorting;
Used in any marking system;
Precludes thievery.

Used for years by hundreds of laundries
SAMPLES FREE
(All shipments C.O.D. unless check accompanies order)

Price, *per thousand*.....$7.50
5,000 or more, *per thousand*.....$6.50

Starchroom Laundry Journal
304 East 45th Street New York 17, N. Y.

WHY Do You Use

Because they are the **only original** safe, fast bleaching agents, not substitutes.

ALL-COLER BLEACH ★ 10 lb. unit $6.50
TEN MINIT BLEACH ★ 10 lb. unit $8.50

★ Accept no substitutes, both bleaches are exclusive products of

Order From Your Jobber

Warco LABORATORIES
1636-40 West Vernon Ave. Los Angeles 37, California Dept. N

When writing to advertisers please mention The NATIONAL CLEANER & DYER

SEND GARMENTS FOR DYEING TO

ALMORE
DYE HOUSE

4412-24 WENTWORTH AVE., CHICAGO 9, ILL.
Leon Teichner, *President*

Continuously in Business since 1919

THE DYEING NAME OF UNDYING FAME

You'll Be Money Ahead

with

TOUGH
CLEANSERTAG

Tags that shred or lose their markings cost you plenty — in garment replacements, plant confusion, loss of customer goodwill.

Which is why we ask you to try Cleansertag. Tags made of Cleansertag are strong — both *wet* and dry — never shred — never lose their markings — never curl. They are always easy to read even after long submersion in strong cleaning solutions.

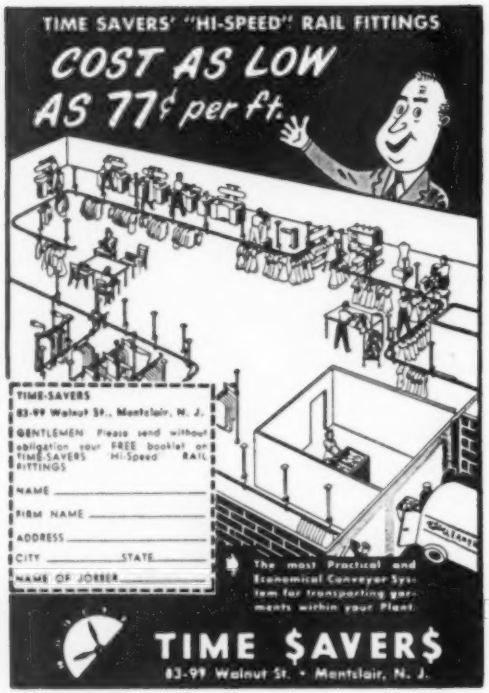
Write Today for FREE Sample

HOLLINGSWORTH & VOSE COMPANY
East Walpole, Massachusetts

Please send me trial sample of your Cleansertag. At the same time, I would like the name of tag manufacturers who use Cleansertag.

Name .....
Company .....
Street .....
City ..... *State* .....

When writing to advertisers please mention The NATIONAL CLEANER & DYER



Continental
PACKAGED STEAM GENERATORS

- are easy to install
- economical to operate
- require minimum maintenance

The Continental improved type, 2-pass boiler operates with guaranteed efficiency of at least 80%. Steam moisture content is less than 1%, proved by independent tests. It burns oil, gas, or combination in water-surrounded furnace. Gases spiral through 3" tubes for high heat transfer and low flue gas temperature. Based on proven Scotch Marine design, the Continental needs far less refractory than 3- and 4-pass boilers. Front and back can be opened in less than 15 minutes for easy servicing. The boiler is ready for fully automatic operation after simple service connections. Range of sizes 10 to 500 HP, high or low pressure. Some sizes carried in stock. Contact your local supplier for more information, or send for latest literature on Continental boilers.

BOILER ENGINEERING AND SUPPLY COMPANY
330 Fourth Avenue • Phoenixville, Pa.

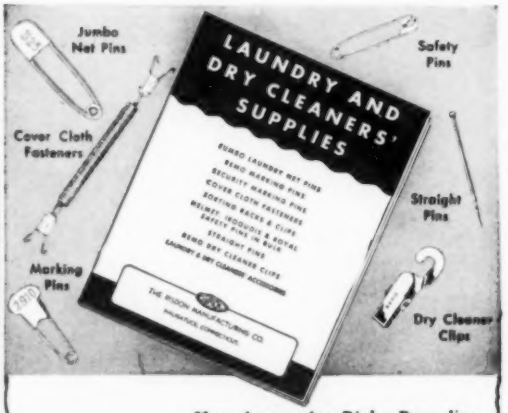
Specify
DANDUX
from your dealer

BUILT FOR LASTING STRENGTH
AT ECONOMY PRICES TOO!

TRUCKS • HAMPERS • BASKETS

C. R. DANIELS, INC.
75 West St., New York 6, N. Y.

Daniels, Md.



Ask your dealer for your copy of this NEW
RISDON REMO CATALOG

Have the complete Risdon-Remo line at your fingertips. Pictures, specifications and prices make the line easy to order.

And don't forget the three star features of Risdon-Remo service.

★ Immediate Shipments
★ Complete Dealer Coverage
★ A Pin for Every Need

THE RISDON MANUFACTURING CO.

RISDON
HAUGATUCK, CONN.

R1-2

When writing to advertisers please mention The NATIONAL CLEANER & DYER

TWO NEW *Paris Finishers*

give higher production per operator hour of finished quality work than any other garment finisher.

PARIS MASTER
$495.00

IN BOTH MODELS:

1 NEW, UNMATCHED SPEED AND EASE OF OPERATION . . . results from having only ONE form and from the *new* front and back clamps *without pins*. With a flick-of-the-wrist, they secure and hold the garment's edges.

2 FEWER TOUCH-UPS AND MORE PASS-UPS combine to yield the high quality work for which the Paris has long been noted.

CHALLENGE

ECONOMY MODEL
$395.00

Let us prove these claims by a demonstration in your plant.

Convince yourself that our *money saving* claims are FACTS. Let your jobber plug a Paris in any light socket; then, even without steam, you can see for yourself how the Paris turns out BETTER work FASTER.

Meanwhile for complete specifications, for description of Paris unique Controlled Pressure, for our statement "Production-Per-Operator-Hour Claims—True or False?" . . .

See your jobber or write us

GARMENT FINISHING EQUIPMENT CORP.
Frank A. Weller, Pres., Sharon, Pa.
Sales Office: 18 Brattle St., Cambridge, Mass.

Imagine . . .
ONE PAD LASTS . . . **5 YEARS!**

UNCONDITIONALLY GUARANTEED!

FIREFLY
ASBESTOS PADS
FOR USE ON FREE STEAM PRESSES

It's a fact! Each FIREFLY pad will last 5 years—and longer. The secret's in the patented 5-ply asbestos construction. Five layers of specially treated open-weave asbestos are ingeniously formed so as to permit the rapid passage of steam and air for long periods of time—assuring you of quality finishing every time.

LOOK AT THE SAVINGS!

1 FIREFLY = 250 COTTON PADS

250 Cotton press pads (one-a-week for 5 years) @ 90¢ $225.00	ONE FIREFLY patented press pad that lasts for 5 years $17.50

225.00 ⟷ 17.50

FREE! Mail coupon for descriptive brochure. Do it today!

JOBBER'S INQUIRIES INVITED

☐ Please ship ____ FIREFLY press pads @ $17.50. Indicate name & model of press.

☐ Without obligation, please send complete information on FIREFLY press pads.

NAME OF FIRM ____
ADDRESS ____ CITY ____ STATE ____
YOUR NAME ____ JOBBER ____

FIREFLY
U.S. Pat. No. 2,382,141

FIREFLY ASBESTOS PRODUCTS
175 BERGEN STREET NEWARK 3, NEW JERSEY

IN ROTARY PUMPS
VIKING Has the Answer to Your Needs

LOW *or* HIGH CAPACITY

LIGHT *or* HEAVY LIQUIDS

HOT *or* COLD FLUIDS

CORROSIVE MATERIALS

ODD *or* STANDARD Drive Arrangements

PECULIAR Mounting Conditions

Whatever your pumping needs may be, start solving them today by requesting folder 803Q.

See Our Catalog in SWEETS

VIKING
AN HONORED NAME IN PUMPING

Viking PUMP COMPANY
CEDAR FALLS, IOWA

ANOTHER BIG TAKAMINE FIRST!

SAVE ▶ TIME LABOR MONEY

*GET MORE ACTION with "MULTIPLE-FORCE ENZYMES"

Only TAKAMINE has created this great new digester by combining two teams of Quick-Acting Enzymes to give you greater potency for a larger variety of stains! FOR BOARD and BATH!

Send for your sample now!

IT'S NEW! IT'S DIFFERENT! IT'S FASTER!

*By actual Laboratory tests

TAKAMINE
LABORATORY, INC.
CLIFTON, N. J.

TAKAMINE LABORATORY, Inc.
Clifton, N. J.
Please send FREE sample of TAKALAB—TLM for *Board and Bath*.
Firm ____
Address ____
City ____ Zone ____
Name ____

When writing to advertisers please mention The NATIONAL CLEANER & DYER

AMESTEAM GENERATOR KNOCKS OUT HIGH STEAM COSTS!

SAVE

FUEL — Guaranteed 80% Efficiency

LABOR — Minimum Attention Required

WATCH FOR ME NEXT MONTH . . . MEANWHILE SEND FOR BULLETIN 1C11-C

AMES IRON WORKS

BOX L-2 OSWEGO, N. Y.

10 - 500 h.p.
15# - 200# w.p.
Oil or Gas

YES...YOU ARE A FUR GLAZING EXPERT
It's Easy and Profitable—Here's How!

1 SPRAY any Persian, Caracul, Kidskin, Indian Lamb or other fur just once . . .

2 BRUSH lightly, following curl or character of the fur . . .

3 SHOW the fur to your customer . . . and you have a satisfied customer!

SECURITY A-1 LUSTERIZING FORMULA

"The Same Glaze Over 5000 Furriers Use"

JOBBERS! Write today for complete details about this great new extra source of income. FREE window streamers, circulars and other dealer aids available!

NOW ONLY $1.50 12 oz. can

$1.39 in case lots of 12

At your jobber, or write direct to:

SECURITY FUR SEAL CO., INC.
144 W. 27th Street
New York 1, N. Y.

GROSS STAR GRID PLATE for Dry
MFD. BY L. BEHRSTOCK CO.

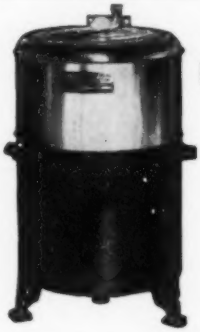
up to 46" . $14.85
mushroom . 11.00
over 46" . 19.25
from your jobber

The Sign of a Better GRID PLATE GROSS STAR

FOR THAT "HAND FINISHED" LOOK

Only GROSS STAR is 12-ways better. Be sure your press plate has ALL 12 advantages

L. BEHRSTOCK CO.
1708 S. State St., Chicago 16, Ill.



BOCK EXTRACTORS

The most efficient time and money saving Extractor on the market.

Made in 15", 17" and 20" sizes.

Send Us Your Inquiry.

BOCK LAUNDRY MACHINE CO.
TOLEDO, OHIO.

it pays to use

SPOTOUT

"Coast to Coast . . . the Cleaner's Favorite"

manufactured by

KENNEDY PRODUCTS COMPANY
4125 Orchard Lane • Cincinnati 36, Ohio

A "Must" for removing LINT OFF GARMENTS
Fast & Sanitary!

"Little Wonder" ELECTRIC WHISK-BRUSH MACHINE

Give your garments a better finish. The only appliance of its kind. Thousands of satisfied users.

WEIGHS BUT 3½ lbs.

Also Mfgrs. Patented "NEEDLE-BOARDS" for pressing VELVET and NAP FABRIC materials without shine or glaze. SEND FOR CIRCULAR

AMERICAN PRESSBOARD CO. (Est. 1910. Patentees)
110 WEST 30th ST., NEW YORK 1 • Tel. PEnn. 6-8687

Says the Stadham 'cover' girl

Stadham PRESS PADS and COVERS

"No matter what the type or style of press or puff iron . . . Stadham fills the need better. Long wearing . . . quality finish . . . increased production."

Write for name of your distributor.

STADHAM COMPANY, INC. • HEXAGON DIVISION
1815-31 NORTH 20th STREET, PHILA. 21, PA.

"PROFITABLE ALTERATIONS"

In response to repeated demands—10 pertinent articles taken from previous issues of The NATIONAL CLEANER & DYER have been prepared and reproduced in booklet form.

These articles contain the necessary step-by-step information (with accompanying photographs) to aid your repair department to more "Profitable Alterations."

Price only 50¢

NATIONAL CLEANER & DYER
304 East 45th St. New York 17, N. Y.

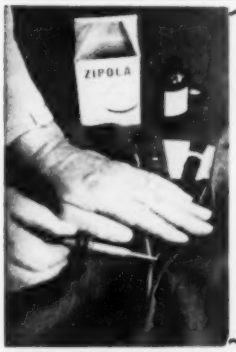
When writing to advertisers please mention The NATIONAL CLEANER & DYER

These little items-bring BIG savings

- MEMO TAGS
- COMBINER CLIPS
- DRIVER CALLED TAGS
- BUTTON HOLE MESSAGE TAGS
- PRESSER IDENTIFICATION TAGS
- COV-EEZ HANGER COVERS

Write for free samples and Catalogue 252N
Order thru your Supplier or write direct

LARTON Products Co., Inc., 4234 Third Ave., New York 52, N.Y.



You can count on

ZIPOLA

every time for fast sliding zippers

- *EASY TO APPLY*
- *NON-STAINING*

Mail $1.00 for trial package (3—½ oz. dropper bottles).

HIGH CHEMICAL CO.
1756 Howard St.
Philadelphia 22, Pa.

BETTER NECKTIE PRESSING ADDS MORE CUSTOMERS.. INCREASES YOUR PROFIT!

The JANET steam necktie press finishes ties like new! Eliminates all iron marks, sharp knife-like edges . . . leaves ties with smooth rounded edges. Use neckties as a business builder! Easy to install and operate . . . finishes up to 100 ties per hour. Fits all standard ties . . . built for long carefree service.

Ask your dealer about the JANET NECKTIE PRESS *and* GLOVE FORMS, *or write*

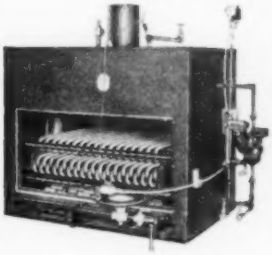
JANET GLOVE FORMS
New electric or steam heated models available for both ladies' and men's gloves.

SHEDLOV-HEINZ MANUFACTURING CO.
15-B Wilder Street, Minneapolis 1, Minn.

The Sensational New Model 52

PARKER INDUSTRIAL BOILERS

The greatest advance in Boiler Design in the last decade.



Over 30 years of research and engineering offers all advanced design features in the 52 Model. Low Initial Cost—Inexpensive to install — Low operating cost. Completely Safe —Simple to operate —Dependable. Easily Cleaned — Complete accessibility — Long life.

Manufactured in gas and oil sizes, 4½ to 60 H.P., A.S.M.E. Telephone, telegraph or write for colorful folders, stating size and type needed.

SID E. PARKER BOILER MFG. CO.
Incorporated
2035 E. 37th St., Los Angeles,
ADams 3-4211

SAVE UP TO 50% on HANDLING COSTS . . .
FREE BOOKLET SHOWS HOW!

FREE!

ILLUSTRATED INSTRUCTION FOLDER
Simple installation procedure shown step-by-step! Shows how you can install it yourself, using wrench and screwdriver.

CONTINURAIL
OVERHEAD RAIL SYSTEMS
FOR COMPLETE & PARTIAL SYSTEMS

- We provide the **inexpensive** patented fittings . . . priced as low as 75c each.
- You provide **your own** ¾" or 1" ordinary pipe.
- You **install-it-yourself.** No welding . . . No threading . . . No machining!

Free planning service!

MAIL COUPON TODAY!

Without any obligation to me, please send complete information on CONTIN-U-RAIL Overhead Rail Systems.

Name of Firm .....
Address .....
City ..... State .....
Name .....
Jobber .....

D

White MACHINE COMPANY
104 Livingston St., Newark 3, N. J.

When writing to advertisers please mention The NATIONAL CLEANER & DYER

DIRECTORY SECTIONS

of the Guidebook for the Drycleaning Industry

▲ CLASSIFIED DIRECTORY . . . PAGE 233

In this section supplies and equipment used by the drycleaning industry, with their manufacturers, are listed alphabetically for easy reference. Products are listed by noun—for example, "Soaps, Wetcleaning," rather than "Wetcleaning Soaps"—except where the two words are joined together by common usage, as in "Sleeve Shapers," rather than "Shapers, Sleeve." The directory is also thoroughly cross-referenced for greater convenience. Display advertisers are listed in bold face type. For page numbers of display advertisements see the Advertisers' Index on page 353.

▲ TRADE NAMES . . . . . PAGE 287

An alphabetical list of trade names of supplies and equipment used in the drycleaning industry, with a description of each product and its manufacturer.

▲ MANUFACTURERS . . . . . PAGE 308

An alphabetical list of all equipment and supply manufacturers with their addresses. When you have found the name of the firm which manufactures the product in which you are interested under the "Classified Directory" or "Trade Names" section, consult this list for its address.

▲ LOCAL BUYERS' GUIDE . . . PAGE 316

This geographical classification of sources of supply provides complete buying information for the drycleaning industry. Here the cleaner will find the jobbers' or manufacturers' branches serving his own community. Firm names followed by (E) are jobbers for equipment; firm names followed by (S) are jobbers for supplies, and firm names followed by (E & S) are jobbers for both equipment and supplies. Bold face type indicates display advertisers. For page numbers of advertisements giving complete product descriptions see Advertisers' Index on Page 353.

CLASSIFIED DIRECTORY

manufacturers of equipment and supplies used in the drycleaning industry . . . . . .

ABSORBERS, ODOR
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Davies-Young Soap Co.
Schutte & Koerting Co.

ABSORBERS, VIBRATION
American Brass Co., American Metal Hose Branch
Chicago Metal Hose Div., Flexonics Corp.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Johns-Manville
Johnson Metal Hose, Inc.
M B Mfg. Co.
Packless Metal Products Corp.
Raybestos-Manhattan, Inc.
Salomon, L. A., & Bro.
U. S. Rubber Co.

ACCOUNTING MACHINES AND SYSTEMS
Burroughs Adding Machine Co.
National Cash Register Co.
Recordak Corp.

ACETATE ALUMINUM
See: Aluminum, Acetate

ACETIC ACID
DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Harbik Bleach Co.
Mallinckrodt Chemical Works
Patterson Laboratories, Inc.

ACETONE
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
DuPont de Nemours, E. I., & Co., Inc.
Mallinckrodt Chemical Works

ACID-RESISTING BUCKETS
See: Buckets and Pails, Acid-Resisting

ACID-RESISTING HARD RUBBER FITTINGS
See: Fittings, Acid-Resisting, Hard Rubber

ACID-RESISTING PAINT
See: Paint

ACID-RESISTING PIPE
See: Pipe, Acid-Resisting, Alloy

ACID-RESISTING TANKS
See: Tanks, Acid-Resisting

ACIDS
See: Acetic Acid, Oxalic Acid

ACTIVATED CARBON
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Darco Dept. (Atlas Powder Co.)
DuPont de Nemours, E. I., & Co., Inc.
Elgin Softener Corp.
Infilco, Inc.
Permutit Co.
Refinite Corp.
Salomon, L. A., & Bro.
Stover Water Softener Co.

ADDING MACHINES
Allen, R. C., Business Machines, Inc.
Burroughs Adding Machine Co.
National Cash Register Co.

ADDRESSING EQUIPMENT
Addressograph-Multigraph Corp.

ADSORBENTS
See: Activated Carbon, Filter Powder

ADVERTISING POSTERS
See: Posters

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Ingersoll-Rand Co.
Johnson Corp.
Murray, D. J., Mfg. Co.
Patterson-Kelley Co., Inc.
Schutte & Koerting Co.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.

AIR CLEANERS
Drico Industrial Corp.
Wright-Austin Co.

AIR COMPRESSORS
See: Compressors, Air

AIR CONDITIONERS
Brunner Mfg. Co.
Carll, Chas. W., Sons
Carrier Corp.
Chrysler Corp., Airtemp Div.
Clarage Fan Co.
Cuno Engineering Corp.
Fairbanks Morse & Co.
Frigidaire Div., General Motors Corp.
General Electric Co.
Kelvinator Div., Nash-Kelvinator Corp.
Murray, D. J., Mfg. Co.
Petroleum Heat & Power Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Trane Co.
Young Radiator Co.
Worthington Pump & Machinery Corp.

AIR COOLERS
See: Coolers, Oil, Water, Air

AIR ELIMINATORS
Armstrong Machine Works
Sarco Co., Inc.
Wright-Austin Co.

AIR FILTERS
Drico Industrial Corp.
Haertel, Walter, Co.
Kaye & MacDonald, Inc.
Master Products Co.
Mine Safety Appliances Co.
Owens-Corning Fiberglas Corp.
Strong, Carlisle & Hammond Co.
Westinghouse Air Brake Co., Industrial Products Div.

AIR GAUGES
See: Gauges, Air

AIR HEATERS
See: Heaters, Air

AIR METERS
See: Meters, Air

AIR SEPARATORS
Binks Mfg. Co.
Clark Mfg. Co.
De Vilbiss Co.
Johnson Corp.
Kaye & MacDonald, Inc.
Keckley, O. C., Co.
Leavitt Machine Co.
Strong, Carlisle & Hammond Co.
Wright-Austin Co.

AIR TANKS
See: Tanks, Air

AIR TRAPS
Anderson, V. D., Co.
Armstrong Machine Works
Binks Mfg. Co.
Clark Mfg. Co.
Kaye & MacDonald, Inc.
Keckley, O. C., Co.
Sarco Co., Inc.
Squires, C. E., Co.
Sterling Engineering & Mfg. Corp. (Templeton Mfg. Co.)
Strong, Carlisle & Hammond Co.
Wright-Austin Co.

AIR VACUUM SYSTEMS, PRESSES
See: Vacuum Systems, Presses

ALARMS, HIGH AND LOW WATER
Campbell, J. A. Co.
Combustion Control Corp.
Cutler-Hammer, Inc.
Hapman-Dutton Co., Dutton Boiler Div.
Johnson Corp.
Kisco Boiler & Engineering Co.
McDonnell & Miller, Inc.
Northern Equipment Co.
Schaub, Fred H., Engineering Co., Inc.
Sterling, Inc.
U. S. Gauge Div., American Machine & Metals, Inc.
Wright-Austin Co.
Yarnall-Waring Co.

ALARMS, SIGNAL
B & G Machinery Co.
Campbell, J. A., Co.
Huebsch Div., American Laundry Machinery Co.
Leslie Co.
McDonnell & Miller, Inc.
Norman & Co.
Photoswitch, Inc.
Rosenthal Mfg. Co.
Sterling, Inc.
U. S. Gauge Div., American Machine & Metals, Inc.
Wright-Austin Co.

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

ALCOHOL

Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
DuPont de Nemours, E. I., & Co., Inc.
Patterson Laboratories, Inc.

ALKALI COMPOUNDS, SPECIAL

Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Carlton Chemical Co., Inc.
Carman & Co., Inc.
Columbia-Southern Chemical Corp.
Cowles Chemical Co.
Diamond Alkali Co.
Dow Chemical Co.
Drew, E. F., & Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Kelite Products, Inc.
Kem Laboratories
Klegman Bros., Inc.
Kohnstamm, M., & Co., Inc.
Lewis National Corp.
National Milling & Chemical Co.
North Coast Chemical & Soap Works
Pennsylvania Salt Mfg. Co.
Philadelphia Quartz Co.
Robins, G. S., & Co.
Solvay Sales Div., Allied Chemical & Dye Corp.
Sparco Co.
Stadham Co., Inc.
Stauffer Chemical Co.
Swift & Co.
Theobald Industries
Thompson-Hayward Chemical Co.
Turco Products, Inc.
Van Chemical Co.
Wadsine National Sands, Inc.
Wyandotte Chemicals Corp.

ALKALI-RESISTING PAINT

See: Paint

ALUMINUM ACETATE

DuPont de Nemours, E. I., & Co., Inc.
Mallinckrodt Chemical Works
Wolf, Jacques, & Co.

ALUMINUM CASTINGS

See: Castings, Brass, Bronze and Aluminum

ALUMINUM PAINT

See: Paint

ALUMINUM PIN CARRIERS

See: Pin Carriers

AMMONIA

Armour & Co., Industrial Soap Div.
Dow Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Hachek Bleach Co.
Hood Chemical Co., Inc., Crescent Div.
Mallinckrodt Chemical Works
North Coast Chemical & Soap Works
Patterson Laboratories, Inc.
Pennsylvania Salt Mfg. Co.

AMMONIUM ACID FLUORIDE

See: Sewer

ANGLE VALVES

See: Valves, Angle

ANILINE DYES

See: Dyes

ANTISEPTICS

Alrose Chemical Co.
Carman & Co., Inc.
Drew, E. F., & Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
Farbest Laboratories
General Dyestuff Corp.
Germadean, Inc.
Huntington Laboratories, Inc.
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Sterwin Chemicals, Inc.

APRON LACERS, LAUNDRY

See: Lacers, Laundry Apron

APRONLESS IRONERS

See: Ironers, Apronless

APRONS, ALLIGATOR-LACED

Benwall Mfg. Co.
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Patek & Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
Victor Balata & Textile Belting Co.

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Carman & Co., Inc.
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Colorado Tent & Awning Co.
Fry Bros. Co.
Hettrick Mfg. Co.
Industrial Products Co.
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Lanning Bag & Specialties Co.
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Minnesota Chemical Co.
Patek & Co.
Robins, G. S., & Co.
Southern Mills, Inc.
Stadham Co., Inc.
Stanley, John T., Co., Inc.
Steffen Canvas Products
Sterling Supply Corp.
Superior Products Co.
Tingue, Brown & Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
Troy Sunshade Co.
U. S. Rubber Co.
Victor Balata & Textile Belting Co.
Wagner Awning & Mfg. Co.
Whitman Supply Co., Inc.

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Carman & Co., Inc.
Carson Textile Co., Inc.
Colorado Tent & Awning Co.
Fry Bros. Co.
Hettrick Mfg. Co.
Kohnstamm, H., & Co., Inc.
Lally, R., Co.
Lewis National Corp.
Patek & Co.
Pittsburgh Waterproof Co.
Robins, G. S., & Co.
Sparco Co.
Stadham Co., Inc.
Stanley, John T., Co., Inc.
Sterling Supply Corp.
Superior Products Co.
Thompson-Hayward Chemical Co.
Tingue, Brown & Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
Victor Balata & Textile Belting Co.
Whitman Supply Co., Inc.

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Goodrich, B. F., Co.
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Ramtite Co., Div. S. Obermayer Co.
Reinhes, George P.

ASBESTOS CEMENT

See: Cement, Asbestos

ASBESTOS COVERS AND PADDING

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Behrstock, L., Co.
Benwall Mfg. Co., Inc.
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Callaway Mills, Inc.
Firefly Asbestos Products Co.
Goetz-Kramer Co.
Johns-Manville
Knitted Pudding Co.
Norton & Williams, Inc.
Pittsburgh Waterproof Co.
Revolite Div. (Atlas Powder Co.)
Stadham Co., Inc.
Tingue, Brown & Co.

ASBESTOS PAPER

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Carey, Philip, Mfg. Co.
Johns-Manville
Tingue, Brown & Co.

ASH, SODA

See: Soda Ash (Sodium Carbonate)

ASSEMBLY CIRCUITS

See: Conveyors, Monorail

ASSEMBLY HOOKS

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Ink-O Products Co.
Perfection Products Co. & Identification, Inc.
Smith, Frank R., Co.
V & W Equipment Co.

ASSEMBLY RACK DIVIDERS

Haertel, Walter, Co.
Ink-O Products Co.
Para-Lux Products Co.
Perfection Products Co. & Identification, Inc.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Time Savers, Inc.

ASSEMBLY REELS

See: Sorting Reels

AUTOGRAPHIC REGISTERS

See: Registers, Autographic

AUTOMATIC CONTROLS

See: Controls and Regulators (specific headings), also see: Timers, Washer

AUTOMATIC COUNTERS

See: Counters, Automatic

AUTOMATIC SCALES

See: Scales

AUTOMATIC VALVES

See: Valves, Automatic

AUTOMATIC WASHERS

See: Washers, Automatic

AUTOMOBILE GOVERNORS

See: Governors, Automobile

BADGES, DRIVERS'

Conrad Embroidery Co.
Parisian Novelty Co.
Penn Novelty Co.
Stafford, N., Co.

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Engineer Co.
Parisian Novelty Co.
Penn Novelty Co.
Stafford, N., Co.

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Mexico Refractories Co.
Pilkrico Jointless Firebrick Co.
Ramtite Co., Div. S. Obermayer Co.

BAG AND NET HOLDERS

See: Holders, Bag and Net

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Bishop, G. H., Co.
Cauthen & Slocum, Inc.
Huebsch Div., American Laundry Machinery Co.
Melaine Mfg. Co.
National Marking Machine Co.
Newhouse Co.
Para-Lux Products Co.
Patek & Co.
Perfection Products Co. & Identification, Inc.
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100% AUTOMATIC
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REDUCED 25% to 75%
Write for Information
Specialty DEVICES COMPANY
805 East 26th St. Norfolk (4), Va.

West Side Corp.
White Machine Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

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American Associated Cos.
Bemis Bro. Bag Co., Inc.
Benwall Mfg. Co., Inc.
Bonn, F. H., Co.
Canvas Specialty Co.
Carson Textile Co., Inc.
Colorado Tent & Awning Co.
Daniels, C. R., Inc.
Davis Mills, Inc.
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Lanning Bag & Specialties Co.
Lewis National Corp.
Manitowoc Cotton Goods Mfg. Co.
Phoenix Products Co.
Smith, Gilman B., Co., Inc.
Stadham Co., Inc.
Standard Garment Co.
State Sanitary Supply Co.
Steinman Paper Co.
Superior Products Co.
Tingue, Brown & Co.
Troy Sunshade Co.
Wagner Awning & Mfg. Co.
Zuckerberg Co.

BAGS, DIAPER

Benwall Mfg. Co., Inc.
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Carson Textile Co., Inc.
Daniels, C. R., Inc.
Gustin-Kramer Co.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
Lewis National Corp.
Sani-Top Co.
Southern Mills, Inc.
Stadham Co., Inc.
Superior Products Co.
Tingue, Brown & Co.
Troy Sunshade Co.
Wagner Awning & Mfg. Co.
Zuckerberg Co.

BAGS, DRESS-SHIRT

Bond Street Bag & Paper Corp.
Equitable Paper Bag Co., Inc.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co.
Mehl Mfg. Co.
Moser Bag & Paper Co.
Patek & Co.
Para-Lux Products Co.
Phoenix Products Co.
Rosenthal Paper Co.
Schorsch & Co., Inc.
Spear Box Co., Inc.
Steinman Paper Co.
Wescott Products Corp.
West Side Corp.
Whitman Supply Co.

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Akro Paper Co.
American Coat Hanger Mfg. Co.
Atlanta Paper Co.
Bond Street Bag & Paper Corp.
Bonn, F. H., Co.
Diem & Wing Paper Co.
Equitable Paper Bag Co., Inc.
General Cleaners Products Co.
Katz Bag Co.
Kennedy Car Liner & Bag Co.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
Lincoln Bag Co., Inc.
Mehl Mfg. Co.
Moser Bag & Paper Co.
Mutual Paper Box Co., Inc.
Patek & Co.
Phoenix Products Co.
Rassenfoss Bag Co., Inc.
Rosenthal Paper Co.
Schor Paper Co.
Schorsch & Co., Inc.
Spear Box Co., Inc.
Stadham Co., Inc.
Steinman Paper Co.
Tingue, Brown & Co.
Troy Sunshade Co.
U. S. Tissue Converting Co.
West Side Corp.

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SHIRT
TIE — HAT
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PLAIN
OR
PRINTED
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BAGS, FEATHER

Manitowoc Cotton Goods Mfg. Co.

BAGS, FILTER

See: Filter Bags

BAGS, HAT

See: Hatters' Supplies

BAGS, LAUNDRY, PAPER

Andrew Paper Box & Bag Co.
Atlanta Paper Co.
Bond Street Bag & Paper Corp.
Century Paper Products
Clopay Corp.
Diem & Wing Paper Co.
Equitable Paper Bag Co., Inc.
Kennedy Car Liner & Bag Co.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
Lincoln Bag Co., Inc.
Mehl Mfg. Co.
Moser Bag & Paper Co.
Package Masters, Inc.
Patek & Co.
Phoenix Products Co.
Rosenthal Paper Co.
Schor Paper Co.
Schorsch & Co., Inc.
Spear Box Co., Inc.
Stadham Co., Inc.
Steinman Paper Co.
West Side Corp.

BAGS, NECKTIE

Bond Street Bag & Paper Corp.
Diem & Wing Paper Co.
Equitable Paper Bag Co., Inc.
Gustin-Kramer Co.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
Mehl Mfg. Co.
Moser Bag & Paper Co.
Para-Lux Products Co.
Patek & Co.
Phoenix Products Co.
Rosenthal Paper Co.
Schorsch & Co., Inc.
Spear Box Co., Inc.
Steinman Paper Co.
Time Savers, Inc.
U. S. Tissue Converting Co.
West Side Corp.

BAGS, PANTS OR TROUSER

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Bond Street Bag & Paper Corp.
Diem & Wing Paper Co.
Dixie Hanger Co.
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Kennedy Car Liner & Bag Co.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
Lincoln Bag Co., Inc.
Mehl Mfg. Co.
Moser Bag & Paper Co.
Mutual Paper Box Co., Inc.
Patek & Co.
Phoenix Products Co.
Rassenfoss Bag Co. Inc.
Schorsch & Co., Inc.
Spear Box Co., Inc.
Steinman Paper Co.
West Side Corp.

BAGS, SHIRT

See: Shirt Bags

BAGS, STORAGE, MOTHPROOF

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Steinman Paper Co.
West Side Corp.

BAGS, WETWASH

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Bond Street Bag & Paper Corp.
Bonn, F. H., Co.
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Carson Textile Co., Inc.
Daniels, C. R., Inc.
Diem & Wing Paper Co.
Equitable Paper Bag Co., Inc.
Gustin-Kramer Co.
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Rosenthal Paper Co.
Schorsch & Co., Inc.
Spear Box Co., Inc.
Stadham Co., Inc.
Steinman Paper Co.
Sterling Supply Corp.
Superior Products Co.
Tingue, Brown & Co.
Troy Sunshade Co.
Wagner Awning & Mfg. Co.
West Side Corp.

BALL BEARINGS

See: Bearings, Ball

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Academy Paper Box Co.
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Anderson, Glenn L.
Diem & Wing Paper Co.
Drosral Co.
Economy Tablet & Paper Co.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
Lorroco Industries, Inc.
Magic-Seal Paper Products
Marson Mfg. Co.
Mazur Supply Co.
National Paper Band Co.
Package Masters, Inc.
Para-Lux Products Co.
Patek & Co.
Phoenix Products Co.
Rosenthal Paper Co.
Spear Box Co., Inc.
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Steinman Paper Co.
Sure-Hold Div., Nashua Gummed & Coated Paper Co.
Wescott Products Corp.
Whitman Supply Co., Inc.
Wormstead, Smith & Loomis, Inc.

BAR GUARDS

See: Hanger Shields and Guards

BARRELS, METAL, FIBER, etc.

Carll, Chas. W., Sons
Goodrich, B. F., Co.
Raybestos-Manhattan, Inc.
Walton Trunk Co.

BARS, SORTING

See: Sorting Bars

BASKET BOTTOM, SELF-ELEVATING

Cleaners Specialties Supplies Co.

BASKETS, CANVAS

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Daniels, C. R., Inc.
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Wagner Awning & Mfg. Co.

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Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

BASKETS, EXTRACTOR
See: Extractor Baskets

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Bishop, G. H., Co.
Carll, Chas. W., Sons
Christman, E. L., Co., Inc.
Newhouse Co.
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Bishop, G. H., Co.
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Philco Corp., Storage Battery Div.

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Fafnir Bearing Co.
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Roller Bearing Co. of America
Timken Roller Bearing Co.

BEARINGS, LUBRICATING
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Link-Belt Co.

BEARINGS, METAL
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Timken Roller Bearing Co.

BEARINGS, NEEDLE
Roller Bearing Co. of America

BEARINGS, OILLESS
Amplex Div., Chrysler Corp.
Raybestos-Manhattan, Inc.

BEARINGS, RADIAL
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Link-Belt Co.
New Departure, Div. General Motors Corp.
Roller Bearing Co. of America
Timken Roller Bearing Co.

BEARINGS, ROLLER
Fafnir Bearing Co.
Link-Belt Co.
Roller Bearing Co. of America
Timken Roller Bearing Co.
Wood's, T. B., Sons Co.

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New Ball Bearing Co.
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BEATERS, CARPET AND RUG
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Haertel, Walter, Co.
Hild Floor Machine Co.
Superior Rug Machinery Co.
United Vacuum Appliance Corp.

BELT CEMENT
See: Cement, Belt

BELT CLEANERS
Chevlin, Samuel, Co., Inc.

BELT CONVEYORS
See: Conveyors (under specify loading)

BELT CUTTERS
See: Cutters, Belt

BELT DRESSINGS AND PRESERVATIVES
See: Dressings, Belt

BELT FASTENERS
See: Fasteners, Belt

BELT GUARDS
See: Guards, Belt

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Perfection Products Co. & Identification, Inc.

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Milwaukee Leather Belting Co.
Philadelphia Belting Co.
Virginia Leather Co.
Warren Belting Co., Inc.
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Goodrich, B. F., Co.
Raybestos-Manhattan, Inc.
Russell Mfg. Co.
U. S. Rubber Co.
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BELTING SHEAVES
See: Sheaves, Belting

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Gates Rubber Co.
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Goodrich, B. F., Co.
Link-Belt Co.
Milwaukee Leather Belting Co.
Raybestos-Manhattan, Inc.
U. S. Rubber Co.
Wood's, T. B., Sons Co.
Worthington Pump & Machinery Corp.

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Southern Mills, Inc.
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BELT LACERS
See: Lacers, Belt

BELT PRESERVATIVES
See: Preservatives, Belt

BENCH SCALES
See: Scales

BENTONITE CLAY
See: Clay, Bentonite

BINDING, BLANKET
Hope Webbing Co.
Zuckerberg Co.

BINDING, CARPET AND RUG
Daniels, C. R., Inc.
Flescher Mills, Inc.
Smith, Gilman B., Co., Inc.

BINDING TAPE
See: Tape Binding

BINS, CAST-IRON STORAGE
Brady Conveyors Corp.
Lewis-Shepard Products, Inc.
Moss Industries, Inc.

BINS, STEEL STORAGE
Berger Mfg. Div., Republic Steel Corp.
Brady Conveyors Corp.
Graver Tank & Mfg. Co., Inc.
Lewis-Shepard Products, Inc.
Market Forge Co.
Steele, J. W., & Co.
Stephens-Adamson Mfg. Co.

BIN TAGS
See: Tags, Bin

BLANKET BINDING
See: Binding, Blanket

BLANKET FINISHERS
See: Finishers, Blanket

BLANKET STRETCHERS
See: Stretchers, Blanket

BLANKET WASHERS
See: Washers, Blanket

BLAST HEATERS
See: Heaters, Blast

BLEACH
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Carbon Chemical Co., Inc.
Carman & Co., Inc.
Clorox Chemical Co.
Columbia-Southern Chemical Corp.
Cowles Chemical Co.
Drew, E. F., & Co., Inc.
Du Pont de Nemours, E. I., & Co., Inc.
Eaton Chemical & Dyestuff Co.
Hachik Bleach Co.
Harrison, Robt. D., Inc.
Hood Chemical Co., Inc., Crescent Div.
Kem Laboratories
Klingman Bros., Inc.
Kohnstamm, H., & Co., Inc.
Koehne Chemical Co.
Mallinckrodt Chemical Works
Mathieson Chemical Corp.
Patek & Co.
Patterson Laboratories, Inc.
Robins, G. S., & Co.
Pennsylvania Salt Mfg. Co.
Sergeant, E. M., Pulp & Chemical Co., Inc.
Standard Chemical Works Co.
Thompson-Hayward Chemical Co.
Trio Chemical Works, Inc.
Wallace & Tiernan Products, Inc.
Washine National Sands, Inc.

BLEACH GENERATORS
See: Bleach-Making Machines

BLEACHING POWDER
Arnold-Hoffman & Co., Inc.
Carman & Co., Inc.
Columbia-Southern Chemical Corp.
Innis, Speiden & Co.
Pennsylvania Salt Mfg. Co.
Sergeant, E. M., Pulp & Chemical Co., Inc.
Street, R. R., & Co., Inc.
Warco Laboratories
West Side Corp.

BLEACH-MAKING MACHINES
American Laundry Machinery Co.
Wallace & Tiernan Products, Inc.

BLIND-STITCH SEWING MACHINES
See: Sewing Machines, Blind-Stitch

BLOCKING MACHINES, HAT
Acme Hatters Supply Co.
American Hatters Supplies, Inc.
Excelsior Machinery Co.
Hatters Supply House, Inc.
Panten Mfg. Corp.
Shedlov-Heinz Mfg. Co.
U. S. Hoffman Machinery Corp.

BLOCKS, HANGER AND PILLOW
Bond Foundry & Machine Co.
Stephens-Adamson Mfg. Co.
Wood's, T. T., Sons Co.

BLOOD REMOVER
See: Spot Removers, Spotting Agents, Stain Removers

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

BLOWDOWN SYSTEMS, BOILER

Cochrane Corp.
Graver Tank & Mfg. Co., Inc.
Liquid Conditioning Corp.
McLeod & Henry Co., Inc.
Stout, David, & Sons
Strong, Carlisle & Hammond Co.
Whitlock Mfg. Co.
Williams & Davis Boiler & Welding Co., Inc.

BLOWERS

Breuer Electric Mfg. Co.
Carll, Chas. W., Sons
Chelsea Fan & Blower Co.
Clarage Fan Co.
De Laval Steam Turbine Co.
Eclipse Fuel Engineering Co.
Haertel, Walter, Co.
Hopkins Equipment Co.
Ideal Industries, Inc.
Ilg Electric Ventilating Co.
Lamson Corp., Blower Div.
Martin Fan & Blower Co.
Moore Co.
Radiant Drying Co.
Roots-Connersville Blower Corp.
Schwitzer-Cummins Co.
Schutte & Koerting Co.
Trane Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.

BLOWOFF VALVES

See: Valves, Blowoff

BLUE

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Beach Soap Co.
Carman & Co., Inc.
Coates Chemical Co.
Diamond Alkali Co.
Drew, E. F., & Co., Inc.
Eaton Chemical & Dyestuff Co.
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Lewis National Co.
Patek & Co.
Pennsylvania Salt Mfg. Co.
Speare Co.
Standard Chemical Works Co.
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Virginia-Carolina Laundry Supply Co.
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BOARDS, BULLETIN

See: Bulletin Boards

BOARDS, IRONING

See: Ironing Boards and Tables

BOARDS, PRESS (DRYCLEANING)

See: Pressing Boards (Drycleaning)

BOARDS, SHIRT

See: Shirt Boards

BOARDS, SHIRT-FOLDING

See: Shirt-Folding Boards

BOARDS, SPOTTING

See: Spotting Boards and Tables

BOARDS, STEAM

See: Steam Boards

BOILER BAFFLES

See: Baffles, Boiler

BOILER BLOWDOWN SYSTEMS

See: Blowdown Systems, Boiler

BOILER COMPOUNDS

Acme Industrial Compounds Corp.

ACME "SCALE-OUT"
Prevents Boiler Scale, Stops Pitting, Inhibits Rust, Corrosion & Embrittlement
Specifically prepared to solve your own individual water problem—Send sample for free analysis
ACME INDUSTRIAL COMPOUNDS CORP
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American K.A.T. Corp.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Doctor Boiler, Inc.

Avoid Breakdown—Keep Your Boiler Clean
SCIENTIFIC SCALE REMOVER
Removes & prevents—with money back guarantee
Write for descriptive folder & prices
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4316 Main Street Dallas, Texas

Drew, E. F., & Co., Inc.
Elgin Softener Corp.
General Chemical Div., Allied Chemical & Dye Corp.
Huntington Laboratories, Inc.
Johnson, W. E., Products Co.
Kelite Products, Inc.
Kem Laboratories
Kisco Boiler & Engineering Co.
Kohnstamm, H., & Co., Inc.
Magnus Chemical Co., Inc.
National Chemical Sales Co., Laboratory, Inc.
Patek & Co.
Permutit Co.
Refinite Corp.
Riverside Chemical Co., Inc.
Turco Products, Inc.
Water Service Laboratories, Inc.
Wyandotte Chemicals Corp.

BOILER FEED PUMPS

See: Pumps, Boiler Feed

BOILER FEED SYSTEMS

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Cissell, W. M., Mfg. Co., Inc.
Columbia Boiler Co.
Combustion Control Corp.
Cyclotherm Corp.
Decatur Pump Co.
Dixon Boiler Works
Eclipse Fuel Engineering Co.
Hapman-Dutton Co., Dutton Boiler Div.
Johnson Corp.
Kisco Boiler & Engineering Co.
Lattner, P. M., Mfg. Co.
McDonnell & Miller, Inc.
Martin Equipment Corp.
Meurs-Kane-Ofeldt, Inc.
Permutit Co.
Proportioneers, Inc.
Roth, Roy E., Co.
Schaub, Fred H., Engineering Co., Inc.
Sellers Engineering Co.
Spotswood Parker & Co.
Sterling, Inc.
Sterling Engineering & Mfg. Corp. (Templeton Mfg. Co.)
Stout, David, & Sons
U. S. Hoffman Machinery Corp.
Wright-Austin Co.
Williams & Davis Boiler & Welding Co., Inc.

BOILER FEED TESTING SYSTEMS

See: Testing Systems, Boiler Feed

BOILER FEED TRAPS

See: Traps, Boiler Feed

BOILER FUEL CUTOFFS, LOW WATER

Cissell, W. M., Mfg. Co., Inc.
Campbell, J. A., Co.
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Johnson, Corp.
Kisco Boiler & Engineering Co.
McDonnell & Miller, Inc.
Schaub, Fred H., Engineering Co., Inc.

BOILER INSULATION

See: Insulation, Pipe and Boiler

BOILER LEVEL RECORDERS

See: Recorders, Boiler Level

BOILER METERS

See: Meters, Boiler

BOILER NON-RETURN VALVES

See: Valves, Boiler Non-Return

BOILER PROTECTORS

See: Protectors, Boiler

BOILER REPAIR COMPOUND

Radiator Specialties Co.
Steelcote Mfg. Co.

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Billingsly Machinery Co.
Chrisman, E. L., Co., Inc.
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Cyclotherm Corp.
Decatur Pump Co.
Dixon Boiler Works
Eclipse Fuel Engineering Co.
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Glover, Bill, Inc.
Goldman Pressing Machine Corp.
Hammond Laundry-Cleaning Machinery Co.
Hapman-Dutton Co., Dutton Boiler Div.
Healy-Ruff Co.
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McDonnell & Miller, Inc.
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Marvel Mfg. Co.
Meurs-Kane-Ofeldt, Inc.
Morehead Mfg. Co.
Schaub, Fred H., Engineering Co., Inc.
Sellers Engineering Co.
Spotswood Parker & Co.
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Sterling Engineering & Mfg. Corp. (Templeton Mfg. Co.)
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Superior Combustion Industries, Inc.
U. S. Hoffman Machinery Corp.
Vic Cleaning Machine Co.
Webster, Warren, & Co.
Whitlock Mfg. Co.
Williams & Davis Boiler & Welding Co., Inc.

BOILERS AND STEAM GENERATORS

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Ames Iron Works
Automatic (Sussman) Steam Products Corp.
Beder Corp.
Boiler Engineering & Supply Co.
Brownell Co.
Bryan Steam Corp.
Chrisman, E. L., Co., Inc.
Clayton Mfg. Co.
Cleaver-Brooks Co.
Coates Electric Mfg. Co.
Columbia Boiler Co.

Manufacturers of:
HIGH PRESSURE & MINIATURE BOILERS
See our display ad on page 185
COLUMBIA BOILER COMPANY
Pottstown, Pa. Tel. Pottstown 1850

Combustion Engineering Co., Inc.
Cooper, H. P., & Co.
Crown Mfg. Co.
Custom Engineering Co.
Cyclotherm Corp.
Dixon Boiler Works
Eclipse Fuel Engineering Co.
Electric Steam Boiler Sales, Div., Wall Co.
Fine City Iron Works
Fulton Boiler Works, Inc.
Goldman Pressing Machine Corp.
Hapman-Dutton Co., Dutton Boiler Div.
International Boiler Works Co.
Johnston Bros., Inc.
Keeler, F., Co.
Kewanee Boiler Corp.
Kisco Boiler & Engineering Co.
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(Continued on next page)

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For manufacturers' addresses see MANUFACTURERS' list beginning page 308

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Orr & Sembower, Inc.
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Sebring Mfg. Co.
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Magnus Chemical Co., Inc.
National Aluminate Corp.
National Chemical Sales Co., Laboratory, Inc.
Permutit Co.
Philadelphia Quartz Co.
Refinite Corp.
Rumford Chemical Works
Solvay Sales Div., Allied Chemical & Dye Corp.

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Beico Industrial Equipment Div.
Butler Engineering Co.
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Water Service Laboratories, Inc.

BONE BUTTONS

See: Buttons

BOOKKEEPING MACHINES

See: Registers, Cash and Control

BOOKS, SALES

See: Sales Books

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DuPont de Nemours, E. I., & Co., Inc.
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Sergeant, E. M., Pulp & Chemical Co., Inc.
Stauffer Chemical Co.

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BRASS PIN CARRIERS

See: Pin Carriers

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Spears Co.
Stadham Co., Inc.
Swift & Co.
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See: Paint

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Newhouse Co.
Pennington Co.
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Knight, Maurice A.
Rochester Can Co.

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BUCKLE COVERING MACHINES

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Carman & Co., Inc.
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Kohnstamm, H., & Co., Inc.
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Minnesota Chemical Co.
North Coast Chemical & Soap Works
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Philadelphia Quartz Co.
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Solvay Sales Div., Allied Chemical & Dye Corp.
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See: Racks, Bundle

BUNDLE TYERS

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National Bundle Tyer Co.
Simmons Machine Co.
Tie Co.

BURNERS, COAL

See: Stokers

BURNERS, GAS

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Cleaver-Brooks Co.
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Engineer Co.
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Peabody Engineering Corp.
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Rockwell, W. S., Co.
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Stout, David, & Sons
Williams & Davis Boiler & Welding Co., Inc.

BURNERS, GAS-OIL

American Heat Corp.
Anthony Co.
Cleaver-Brooks Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

Eclipse Fuel Engineering Co.
Engineer Co.
General Electric Co.
Lattner, P. M., Mfg. Co.
Mettler, Lee B. Co.
National Airoil Burner Co., Inc.
Peabody Engineering Corp.
Petroleum Heat & Power Co.
Ray Oil Burner Co.
Rockwell, W. S., Co.
Steamaster Automatic Boiler Co.
Williams & Davis Boiler & Welding Co., Inc.

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Engineer Co.
General Electric Co.
Gilbert & Barker Mfg. Co.
Iron Fireman Mfg. Co.
Kisco Boiler & Engineering Co.
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"Cut Steam Costs"
for heat—for hot water
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Button Covering
Is A Champion Business Getter—Profitable—Simple—Attracts Trade

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BUTTON COVERS

See: Covers, Button and Buckle

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Osborn Bros.
Stafford, N. Y., Co.
Risdon Mfg. Co.
Tho-ro Products, Inc.
Trojan Button Co.

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All sizes. Fully insulated. High pressure built-in steam coil and heavy duty pressure blower. Heavy forged hardware. Write for bulletin.
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CABINETS, PIN TRAY

See: Pin Tray Cabinets

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Berger Mfg. Div., Republic Steel Corp.
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CABINETS, STERILIZING

See: Sterilizing Cabinets

CABINETS, STORAGE

See: Storage Cabinets

CABINETS, TOWEL

See: Towel Cabinets

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See: Bleach

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See: Flatwork Ironer Canopies

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See: Buckets and Pails

CANS, DIAPER

See: Diaper Cans

CANVAS APRONS

See: Aprons, Canvas or Duck

CANVAS BAGS

See: Bags (under specific headings)

CANVAS BASKETS

See: Baskets, Canvas

CANVAS CEMENT (APRON)

See: Cement, Canvas (Apron)

CANVAS HAMPERS

See: Hampers

CANVAS PIN CARRIERS

See: Pin Carriers

CANVAS TRUCKS

See: Trucks, Industrial

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CAPES, WIRE-HANGER

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CARBON, ACTIVATED

See: Activated Carbon

CARBON DIOXIDE (CO_2) INDICATORS

See: Indicators (CO_2)

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See: Meters, Carbon Dioxide (CO_2)

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See: Binding, Rug and Carpet

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See: Rug and Carpet Cleaning Equipment

CARPET AND RUG DRIERS

See: Driers, Rug and Carpet

CARPET AND RUG DUSTERS

See: Dusters, Rug and Carpet

CARPET AND RUG SCRUBBING MACHINES

See: Scrubbing Machines, Rug and Carpet

CARPET AND RUG WRINGERS

See: Wringers, Rug and Carpet

CARRIAGES, SHIRT

See: Shirt Carriages

CARRIERS, WHEELED

See: Carts, Garment

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Stauffer Chemical Co.
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See: Envelopes, Shirt

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Stadham Co., Inc.
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Virginia-Carolina Laundry Supply Co.
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See: Paint

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McLeod & Henry Co., Inc.
Mexico Refractories Co.
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DuPont de Nemours, E. I., & Co., Inc.
Goodrich, B. F., Co.
Pennsylvania Rubber Co.
Raybestos-Manhattan, Inc.
U. S. Rubber Co.
U. S. Stoneware Co.

CENTRIFUGAL PUMPS
See: Pumps (under specific headings)

CENTRIFUGAL PUMPS, SELF-PRIMING
See: Pumps (under specific headings)

CHAIN DRIVES
Boston Gear Works, Inc.
Diamond Chain Co., Inc.
Link-Belt Co.
Ramsey Chain Co., Inc.
Whitney Chain & Mfg. Co.

CHAIN-DRIVE SPROCKETS
Boston Gear Works, Inc.
Diamond Chain Co., Inc.
Link-Belt Co.
Ramsey Chain Co., Inc.
Whitney Chain & Mfg. Co.

CHAIN GRATE STOKERS
See: Stokers

CHAIN TRANSMISSION
See: Transmission, Chain

CHANNEL ROOFING, METAL
See: Roofing, Channel, Metal

CHECK VALVES
See: Valves, Check

CHEMICAL FEEDERS
See: Feeders, Chemical

CHEMICAL PUMPS
See: Pumps, Chemical

CHEMICALS, BOILER-WATER
See: Boiler-Water Chemicals

CHEMICALS, STEAM-TREATING
See: Steam-Treating Chemicals

CHIMNEYS
See: Stacks

CHLORINATORS, WATER
American Water Softener Co.
Beiro Industrial Equipment Div.
Hungerford & Terry, Inc.
Kelite Products, Inc.
Mathieson Chemical Corp.
Proportioneers, Inc.
Refinite Corp.
Wallace & Tiernan Products, Inc.

CHLORINE CONTROL EQUIPMENT
Beiro Industrial Equipment Div.
Hellige, Inc.
Hungerford & Terry, Inc.
Patterson Laboratories, Inc.
Refinite Corp.
Taylor, W. A., & Co.
Wallace & Tiernan Products, Inc.

CHLORINE, LIQUID
Arnold-Hoffman & Co., Inc.
Columbia-Southern Chemical Corp.
Diamond Alkali Co.
DuPont de Nemours, E. I., & Co., Inc.
Hooker Electrochemical Co.
Pennsylvania Salt Mfg. Co.
Riverside Chemical Co., Inc.
Solvay Sales Div., Allied Chemical & Dye Corp.
Stauffer Chemical Co.
Wallace & Tiernan Products, Inc.
Westvaco Chemical Div., Food Machinery & Chemical Corp.

CHLORINE TEST KITS
See: Test Kits, Chlorine

CHLOROFORM
Dow Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
Mallinckrodt Chemical Works
Riverside Chemical Co., Inc.

CHUTES, METAL
Curll, Chas. W., Sons
Graver Tank & Mfg. Co., Inc.
Kirk & Blum Mfg. Co.
National Marking Machine Co.
Rosenthal Mfg. Co.

CIRCUIT BREAKERS
Automatic Temperature Control Co., Inc.
Cutler-Hammer, Inc.
General Electric Co.
Heinemann Electric Co.

CIRCULATING PUMPS
See: Pump, Circulating

CLAMPS, COVER-CLOTH
See: Cover-Cloth Clamps or Strings

CLAMPS, FUSE
General Electric Co.
Ideal Industries, Inc.
Tinco Fuse Mfg. Co.

CLAMPS, PIPE-JOINT
Chase Brass & Copper Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Time Savers, Inc.
Yarnall-Waring Co.

CLAMPS, PIPE-REPAIR
Dresser Mfg. Div., Dresser Industries, Inc.
Yarnall-Waring Co.

CLARIFIERS, SOLVENT
See: Filters, Filter Powders, Stills, and Sweetening and Purifying Agents, Solvent

CLAY, BENTONITE
American Colloid Co.
Innis, Speiden & Co.
Salomon, L. A., & Bro.
Wyoming Mining Co.

CLAY, COLLOIDAL
American Colloid Co.
Attapulgus Clay Co.
Innis, Speiden & Co.
Salomon, L. A., & Bro.
Van Chemical Co.
Wyoming Mining Co.

CLEANERS, AIR
See: Air Cleaners

CLEANERS, CUFF
See: Cuff Cleaners

CLEANERS, DRAINPIPE
See: Drainpipe Cleaners

CLEANERS, PRESS
See: Press Cleaners

CLEANERS, PRESS-HEAD
See: Press-Head Cleaners

CLIPPER-LACED APRONS
See: Aprons, Clipper-Laced

CLIPS, HANGER
See: Hanger Clips

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

CLOCKS, TIME
See: Controls and Regulators, Time

CLOCKS, WATCHMAN'S
Detex Watchclock Corp.

CLOTH, ASBESTOS
American Associated Cos.
Callaway Mills, Inc.
Davis Mills Inc.
Johns-Manville
Pittsburgh Waterproof Co.
Raybestos-Manhattan, Inc.
Smith, N. S., Inc.
Stadham Co., Inc.
Tingue, Brown & Co.
U. S. Rubber Co., Textile Div.

CLOTH BAGS
See: Bags, Cloth

CLOTH, CARDING
See: Carding Cloth

CLOTH, COVER
American Associated Cos.
Benwall Mfg. Co. Inc.
Carman & Co., Inc.
Carson Textile Co., Inc.
Daniels, C. B., Inc.
Davis Mills Inc.
Egan Cotton Mills
Franklin Textile Mills
Hettrick Mfg. Co.
Hooper, Wm. E., & Sons Co.
Jones, C. Walker, Co.
Kohnstamm, H., & Co., Inc.
Maglo Products
Pittsburgh Waterproof Co.
Quality Products Co.
Revolite Div. (Atlas Powder Co.)
Smith, N. S., Inc.
Southern Mills, Inc.
Stanley, John T., Co., Inc.
Stenman Paper Co.
Stadham Co., Inc.
Thomaston Mills
Tingue, Brown & Co.
Wagner Awning & Mfg. Co.
Whitehouse Products, Inc.
Zuckerberg Co.

CLOTH CUTTERS
See: Cutters, Cloth

CLOTH DAMPENERS
See: Dampeners, Cloth

CLOTH, FILTER
Burgess-Berliner Associates
Daniels, C. B., Inc.
Davis Mills Inc.
Raybestos-Manhattan, Inc.
Stadham Co., Inc.
Wagner Awning & Mfg. Co.

CLOTH, GLASS-WOVEN
Owens-Corning Fiberglas Corp.
Raybestos-Manhattan, Inc.
Wagner Awning & Mfg. Co.

CLOTH, PRESS
American Associated Cos.
Arms Textile Mfg. Co.
Benwall Mfg. Co. Inc.
Burcott Mills
Carman & Co., Inc.
Carson Textile Co., Inc.
Egan Cotton Mills
Hettrick Mfg. Co.
Kohnstamm, H., & Co., Inc.
Lewis National Corp.
Norton & Williams, Inc.
Pittsburgh Waterproof Co.
Raybestos-Manhattan, Inc.
Revolite Div. (Atlas Powder Co.)
Robins, G. S., & Co.
Smith, N. S., Inc.
Southern Mills, Inc.
Stadham Co., Inc.
Stanley, John T., Co., Inc.
Thomaston Mills
Tingue, Brown & Co.
Wagner Awning & Mfg. Co.
Whitehouse Products, Inc.
Zuckerberg Co.

CLOTH, SURFACE
Arms Textile Mfg. Co.
Carson Textile Co., Inc.
Hettrick Mfg. Co.
Stadham Co., Inc.
Tingue, Brown & Co.
Wagner Awning & Mfg. Co.

CLOTH TESTERS
See: Testers, Cloth and Fabric

COAL AND ASH CONVEYORS
See: Conveyors, Coal and Ash

COILS, HEATING AND COOLING
Davis Engineering Corp.
Modine Mfg. Co.
Trane Co.
Whitlock Mfg. Co.
Young Radiator Co.

COILS, TUMBLER
Troy Laundry Machinery Div., American Machine & Metals, Inc.

COLLAR AND CUFF FASTENERS
See: Fasteners, Collar and Cuff

COLLAR AND SEAM DAMPENERS
See: Dampeners, Collar and Seam

COLLAR, CUFF AND NECKBAND REPLACEMENTS
See: Replacements, Collar, Cuff and Neckband

COLLAR FORMS
American Laundry Machinery Co.
Dixie Hanger Co.
Huebsch Div., American Laundry Machinery Co.
New York Pressing Machinery Corp.
Patek & Co.
Super Laundry Machinery Co., Div. of St. Joe Machines, Inc.

COLLAR IRONERS
See: Ironers, Collar

COLLAR PROTECTORS
See: Protectors, Collar

COLLAR SHAPERS
See: Shapers, Collar

COLLAR SMOOTHERS
Collar Smooth Sales Co.
Key-Tag Checking System Co.

COLLAR SUPPORTS
Academy Paper Box Co.
Anderson, Glenn L.
Andrews Paper Box & Bag Corp.
Dee Paper Co.
Dixie Hanger Co.
Garment Hanger Co.
Grotauer, M. H., Co.
Hodge, Farwell & Co., Inc.
Howe Paper Corp.
Laundry & Dryecleaning Packaging Div., Marcotte Paper & Twine Co., Inc.
Lorrco Industries, Inc.
Marson Mfg. Co.
Package Masters, Inc.
Park-Lux Products Co.
Patek & Co.
Phoenix Products Co.
Rosenthal Paper Co.
Spear Box Co., Inc.
Steele, J. W., & Co.
Stenman Paper Co.
Sure-Hold Div., Nashua Gummed & Coated Paper Co.
Time Savers, Inc.
Wescott Products Corp.

COLLODION REMOVER
See: Spot Removers, Spotting Agents, Stain Removers

COLLOIDAL CLAY
See: Clay, Colloidal

COLORIMETRIC DETERMINATION CHLORINE TEST KITS
See: Test Kits, Colorimetric Determination, Chlorine

COLORIMETRIC TESTING SETS
See: Testing Sets, Colorimetric

COLOR-MATCHING LAMPS
See: Lamps, Color-Matching and Daylight

COLUMNS, WATER
Defender Instrument & Regulator Co.
Hammond Laundry-Cleaning Machinery Co.
Stout, David, & Sons
Wright-Austin Co.
Yarnall-Waring Co.

COMBUSTION CONTROLS
See: Controls and Regulators (under specific headings)

COMBUSTION RECORDERS
See: Recorders, Combustion

COMPENSATING FEED STOKERS
See: Stokers

COMPOSITION BUTTONS
See: Buttons

COMPOSITION HAND TRUCKS
See: Trucks, Industrial

COMPOUND, BOILER-REPAIR
See: Boiler-Repair Compound

COMPOUND, GASKET
See: Gasket Compound

COMPOUNDS, RUG CLEANING AND FINISHING
See: Rug Cleaning and Finishing Compounds

COMPOUNDS, SPECIAL ALKALI
See: Alkali Compounds, Special

COMPOUNDS, WASHING
Acme Soap Co.
Adrian Research & Chemical Co., Inc.
Alrose Chemical Co.
Armour & Co., Industrial Soap Div.
Beach Soap Co.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Carman & Co., Inc.
Colgate-Palmolive-Peet Co.
Cowles Chemical Co.
Diamond Alkali Co.
Dixo Co.
Drew, E. F., & Co., Inc.
Essential Chemicals Co.
General Dyestuff Corp.
Hood Chemical Co., Inc., Crescent Div.
Huntington Laboratories, Inc.
Jerrlaydon, Inc.
Kolite Products, Inc.
Kohnstamm, H., & Co., Inc.
Laundry Chemicals Co.
Lewis National Corp.
McDonnell & Miller, Inc.
Magnus Chemical Co., Inc.
Merson Products Co.
Oakite Products Co.
Patek & Co.
Pennsylvania Salt Mfg. Co.
Philadelphia Quartz Co.
Phoenix Oil Co.
Procter & Gamble Distributing Co.
Riverside Chemical Co., Inc.
Robins, G. S., & Co.
Rumford Chemical Works
Solvay Sales Div., Allied Chemical & Dye Corp.
Spears Co.
Stadham Co., Inc.
Standard Soap Co. of Camden
Texas Soap Mfg. Corp.
Theobald Industries
Van Chemical Co.
Wyandotte Chemicals Corp.

COMPRESSED-AIR VALVES
See: Valves, Compressed-Air

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

COMPRESSORS, AIR

American Air Compressor Co.
American Brake Shoe Co., Kellogg Div.
Banks Mfg. Co.
Brunner Mfg. Co.
C & H Electric Co.
Cooper-Bessemer Corp.
DeVilbiss Co.
Gardner-Denver Co.
Grimes Co.
Ingersoll-Rand Co.
Lamson Corp., Blower Div.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Roots-Connersville Blower Corp.
Schramm, Inc.
Schutte & Koerting Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.
Wayne Pump Co.
Westinghouse Air Brake Co., Industrial Products Div.
Worthington Pump & Machinery Corp.

CONCRETE HARDENER

See: Hardener, Concrete

CONCRETE PAINT

See: Paint

CONDENSATE RETURN SYSTEMS, STEAM

See: Return Systems, Steam Condensate

CONDENSATION METERS

See: Meters, Condensation

CONDENSATION PUMPS

See: Pumps, Condensation Return

CONDENSERS

Brunner Mfg. Co.
Cissell, W. M., Mfg. Co., Inc.
Davis Engineering Corp.
Dryco Corp.
General Electric Co.
Haertel, Walter, Co.
Newhouse Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Schutte & Koerting Co.
Taco Heaters, Inc.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.

CONDENSERS, ELECTRIC

Ingersoll-Rand Co.

CONDENSERS, STEAM

Cissell, W. M., Mfg. Co., Inc.
Glover, Bill, Inc.
Ingersoll-Rand Co.
Patterson-Kelley Co., Inc.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.

CONDITIONERS, AIR

See: Air Conditioners

CONDITIONERS, WATER, CHEMICAL

See: Water Conditioners, Chemical

CONDITIONERS, WATER, MECHANICAL

See: Water Conditioners, Mechanical

CONNECTORS, FLEXIBLE

American Brass Co., American Metal Hose Branch
Chicago Metal Hose Div., Flexonics Corp.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Johnson Metal Hose, Inc.
Zallea Bros.

CONNECTORS, STEAM

American Brass Co., American Metal Hose Branch
Chicago Metal Hose Div., Flexonics Corp.
Packless Metal Products Corp.
Taco Heaters, Inc.

CONSULTANTS, MANAGEMENT

See: Engineers, Management

CONTROLS AND REGULATORS, COMBUSTION AND DRAFT

Automatic Temperature Control Co., Inc.
Bailey Meter Co.
Bressler Engineering Service
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Canton Stoker Corp.
Cash, A. W., Co.

CASH STANDARD
AUTOMATIC COMBUSTION CONTROL SYSTEMS
A. W. CASH COMPANY • DECATUR, ILL.

Chicago Automatic Stoker Co.
Combustion Control Corp.
Cutler Engineering Works, Div. H. D. Conkey & Co.
Defender Instrument & Regulator Co.
D'Este Div., American Chain & Cable Co., Inc.
Engineer Co.
Hays Corp.
National Airoil Burner Co.
Perlex Corp.
Photoswitch, Inc.
Preferred Utilities Mfg. Co.
Republic Flow Meters Co.
Ruggles, Klingemann Mfg. Co.

CONTROLS AND REGULATORS, FEED-WATER

Automatic Temperature Control Co., Inc.
Bailey Meter Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Campbell, J. A., Co.
Cissell, W. M., Mfg. Co., Inc.
Combustion Control Corp.
Davis Regulator Co.
Defender Instrument & Regulator Co.
Eclipse Fuel Engineering Co.
Fielden Instrument Corp.
Foxboro Co.
Hayman-Dutton Co., Dutton Boiler Div.
Kisco Boiler & Engineering Co.
Klipfel Mfg. Co.
Lattner, P. M., Mfg. Co.
McDonnell & Miller, Inc.
Mason-Neilan Regulator Co.
Northern Equipment Co.
Photoswitch, Inc.
Republic Flow Meters Co.
Schaub, Fred H., Engineering Co., Inc.
Squires, C. E., Co.
Sterling, Inc.
Taglabue, C. J., Div., Portable Products Corp.
Texas Eng. Corp.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
Wright-Austin Co.

CONTROLS AND REGULATORS, FEED-WATER TEST

Automatic Temperature Control Co., Inc.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Elgin Softener Corp.
Foxboro Co.
Klipfel Mfg. Co.
National Aluminate Corp.
Taglabue, C. J., Div., Portable Products Corp.
Taylor, W. A., & Co.

CONTROLS AND REGULATORS, FLOW

Automatic Temperature Control Co., Inc.
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Cash, A. W., Co.
Defender Instrument & Regulator Co.
Foxboro Co.
Hays Corp.
Keeley, O. C., Co.
Klipfel Mfg. Co.
Leslie Co.
McDonnell & Miller, Inc.
Refinite Corp.
Republic Flow Meters Co.
Schutte & Koerting Co.
Sterling, Inc.
Texas Eng. Corp.

CONTROLS AND REGULATORS, LIQUID LEVEL

Automatic Temperature Control Co., Inc.
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Campbell, J. A., Co.
Cash, A. W., Co.
Cissell, W. M., Mfg. Co., Inc.
Cutler-Hammer, Inc.
David Regulator Co.
Defender Instrument & Regulator Co.
Fielden Instrument Corp.
Foxboro Co.
General Electric Co.
Hagan Corp.
Hays Corp.
Johnson Corp.
Keeley, O. C., Co.
Kisco Boiler & Engineering Co.
Klipfel Mfg. Co.
McDonnell & Miller, Inc.
Mason-Neilan Regulator Co.
Northern Equipment Co.
Photoswitch, Inc.
Preferred Utilities Mfg. Corp.
Sutco Co., Inc.
Schaub, Fred H., Engineering Co., Inc.
Stephens-Adamson Mfg. Co.
Taglabue, C. J., Div., Portable Products Corp.
U. S. Gauge Div., American Machine & Metals, Inc.
Wright-Austin Co.

CONTROLS AND REGULATORS, MOTOR

Automatic Temperature Control Co., Inc.
Bildwell Manufacturers
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Cutler-Hammer, Inc.
Defender Instrument & Regulator Co.
General Electric Co.
Keeley, O. C., Co.
Klipfel Mfg. Co.
Norman & Co.
Sterling, Inc.

CONTROLS AND REGULATORS, PHOTOELECTRIC

Automatic Temperature Control Co., Inc.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
General Electric Co.
Mettler, Lee B., Co.
National Marking Machine Co.
Norman & Co.
Photoswitch, Inc.
Rosenthal Mfg. Co.
Weston Electrical Instrument Corp.

CONTROLS AND REGULATORS, PRESSURE

Automatic Temperature Control Co., Inc.
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Cash, A. W., Co.
Clark Mfg. Co.
Cutler-Hammer, Inc.
David Regulator Co.
Defender Instrument & Regulator Co.
D'Este Div., American Chain & Cable Co., Inc.
Eclipse Fuel Engineering Co.
Engineer Co.
Foxboro Co.
Hays Corp.
Keeley, O. C., Co.
Klipfel Mfg. Co.
Leslie Co.
McDonnell & Miller, Inc.
Mason-Neilan Regulator Co.
Northern Equipment Co.
Perlex Corp.
Powers Regulator Co.
Republic Flow Meters Co.
Ruggles Klingemann Mfg. Co.
Strong, Carlisle & Hammond Co.
Taglabue, C. J., Div. Portable Products Corp.
U. S. Gauge Div., American Machine & Metals, Inc.

CONTROLS AND REGULATORS, PUMP

Campbell, J. A., Co.
Johnson Corp.
McDonnell & Miller, Inc.
Schaub, Fred H., Engineering Co., Inc.

CONTROLS AND REGULATORS, SOLVENT STILL

McDonnell & Miller, Inc.
Mitchell, J. B., Co.

CONTROLS AND REGULATORS, TEMPERATURE

American Cleaners Equipment Co., Div. American Laundry Machinery Co.
Automatic Temperature Control Co., Inc.
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Defender Instrument & Regulator Co.
D'Este Div., American Chain & Cable Co., Inc.
Foxboro Co.
Haertel, Walter, Co.
Keeley, O. C., Co.
Klipfel Mfg. Co.
Leslie Co.
Manning, Maxwell & Moore, Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

Mason-Neilan Regulator Co.
Mitchell, J. B., Co.
Perfex Corp.
Powers Regulator Co.
Pyrometer Instrument Co., Inc.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Rosenthal Mfg. Co.
Ruggles-Klingemann Mfg. Co.
Sarco Co., Inc.
Squires, C. E., Co.
Sterling, Inc.
Taglialue, C. J., Div., Portable Products Corp.
Weston Electrical Instrument Corp.

CONTROLS AND REGULATORS, TIME

American Laundry Machinery Co.
Automatic Temperature Control Co., Inc.
Bildwell Manufacturers
Bristol Co.
Brown Instrument Co., Div. Minneapolis-Honeywell Regulator Co.
Cramer, R. W., Co., Inc.
Foxboro Co.
General Electric Co.
Norman & Co.
Perfex Corp.
Photoswitch, Inc.
Prosperity Co., Inc.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Rosenthal Mfg. Co.
Stromberg Time Corp.
Taglialue, C. J., Div., Portable Products Corp.
Tork Clock Co., Inc.
Zenith Electric Co.

CONTROLS AND REGULATORS, VACUUM

American Laundry Machinery Co.
Automatic Temperature Control Co., Inc.
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis-Honeywell Regulator Co.
Cutler-Hammer, Inc.
Defender Instrument & Regulator Co.
Foxboro Co.
Leslie Co.
Mason-Neilan Regulator Co.
Northern Equipment Co.
Perfex Corp.
Sterling, Inc.

CONTROLS AND REGULATORS, VALVE

Automatic Temperature Control Co., Inc.
Bildwell Manufacturers
Brown Instrument Co., Div. Minneapolis-Honeywell Regulator Co.
Cash, A. W., Co.
Cutler-Hammer, Inc.
Defender Instrument & Regulator Co.
D'Este Div., American Chain & Cable Co., Inc.
Foxboro Co.
Hays Corp.
Kerkler, O. C., Co.
Kupfer Mfg. Co.
Leslie Co.
McDonnell & Miller, Inc.
Powers Regulator Co.
Republic Flow Meters Co.
Ruggles-Klingemann Mfg. Co.
Sterling, Inc.
Strong, Carlisle & Hammond Co.
Taglialue, C. J., Div., Portable Products Corp.

CONTROLS AND REGULATORS, VOLTAGE

General Electric Co.
Mason-Neilan Regulator Co.

CONTROLS AND REGULATORS, WASHER FORMULA

American Laundry Machinery Co.
Formula Controls, Inc.
Huebsch Div., American Laundry Machinery Co.
Prosperity Co., Inc.
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
U. S. Hoffman Machinery Corp.

CONTROLS, AUTOMATIC

See: Specific headings above and also Timers, Washer

CONTROLS, EXTRACTOR

See: Extractor Cycle Control, Automatic

CONVECTORS AND EVAPORATORS

Modine Mfg. Co.
Trane Co.

CONVERTERS, ROTARY

General Electric Co.
Kato Engineering Co.

CONVEYORS, BELT

B & G Machinery Co.
Dahlberg Machinery Co.
National Marking Machine Co.
Teleflex, Inc.
White Machine Co.

CONVEYORS, COAL AND ASH

Brady Conveyors Corp.
Goodrich, B. F., Co.
Hager Bros.
Hapman-Dutton Co., Dutton Boiler Div.
Link-Belt Co.
Stephens-Adamson Mfg. Co.

CONVEYORS, COUNTING

B & G Machinery Co.
Leehaw Mfg. Co.

CONVEYORS, GO-BACK

B & G Machinery Co.
Link-Belt Co.
National Marking Machine Co.
Rosenthal Mfg. Co.
Time Savers, Inc.
White Machine Co.

CONVEYORS, HANDKERCHIEF

B & G Machinery Co.
Link-Belt Co.
National Marking Machine Co.
Time Savers, Inc.

CONVEYORS, HANGER

Link-Belt Co.
Lamson Corp., Blower Div.
National Marking Machine Co.
Rapids-Standard Co., Inc.

CONVEYORS, IRONING-ROOM

American Laundry Machinery Co.
Atlas Steel Products, Inc.
B & G Machinery Co.
Lamson Corp., Blower Div.
Link-Belt Co.
National Marking Machine Co.
Time Savers, Inc.

CONVEYORS, MONORAIL

American Monorail Co.
B & G Machinery Co.
Chisholm-Moore Hoist Corp.
Industrial Equipment Co.
Lamson Corp., Blower Div.
Link-Belt Co.
Louden Machinery Co.
National Marking Machine Co.
Teleflex, Inc.
Time Savers, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
White Machine Co.

CONVEYORS, PACKAGE DISCHARGE

B & G Machinery Co.
Lamson Corp., Blower Div.
Link-Belt Co.
Market Forge Co.
National Marking Machine Co.
Rapids-Standard Co., Inc.
Stephens-Adamson Mfg. Co.

CONVEYORS, PNEUMATIC, BULK

Eastern Cyclone Conveyor System, Inc.
Hapman-Dutton Co., Dutton Boiler Div.

CONVEYORS, RUG DRYING

American Laundry Machinery Co.
Chief Mfg. Co.
Cleveland Rug Cleaning Machinery Co.
United Vacuum Appliance Corp.

CONVEYORS, SHIRT

American Laundry Machinery Co.
B & G Machinery Co.
Bishop, G. H., Co.
Lamson Corp., Blower Div.
Link-Belt Co.
National Marking Machine Co.

CONVEYORS, SPEED RAIL

B & G Machinery Co.
Cleaners Sales & Equipment Corp.
Dahlberg Machinery Co.
Teleflex, Inc.
Time Savers, Inc.
White Machine Co.

CONVEYORS, STEAM JET ASH

Brady Conveyors Corp.

CONVEYORS, TEXTILE MILLS

Lamson Corp., Blower Div.
Link-Belt Co.
Rapids-Standard Co., Inc.

CONVEYORS, WHEELED CART

See: Carts, Garment

COOKERS, STARCH

American Laundry Machinery Co.
Bishop, G. H., Co.
Hammond Laundry-Cleaning Machinery Co.
Industrial Laundry Machinery Co., Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.

COOLERS, AIR, OIL, WATER

Butler Mfg. Co.
Davis Engineering Corp.
Frigidaire Div., General Motors Corp.
General Electric Co., Air Conditioning Dept.
Murray, D. J., Mfg. Co.
Patterson-Kelley Co., Inc.
Peabody Engineering Corp.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.
Young Radiator Co.

COOLING UNITS, FUR VAULT

See: Refrigeration, Mechanical

COPPER AND BRASS

Bridgeport Brass Co.
Chase Brass & Copper Co.

COPPER TUBING

See: Tubing, Copper

CORD, IRONER

See: Ironer Cord

CORN STARCH

See: Starch, Corn

CORROSION-RESISTANT VALVES

See: Valves, Corrosion-Resistant

COTTON BAGS

See: Bags (under specific headings)

COTTON NETS

See: Nets, Laundry

COTTON PADDING

See: Pads and Padding, Press and Ironer

COTTON THREAD

See: Thread

COTTON UNIFORMS

See: Uniforms, Cotton, Woolen, Worsted, etc.

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Cummings-Landau Laundry Machinery Co., Inc.
Denominator Co.
Durant Mfg. Co.
Fre-Bar-Pac, Inc.
Photoswitch, Inc.
Pioneer Development Co.
Stevenson Co.
Veeder-Root, Inc.

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Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

COUPLINGS, FLEXIBLE

Boston Gear Works, Inc.
Chicago Metal Hose Div., Flexonics Corp.
Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works
De Laval Steam Turbine Co.
Diamond Chain Co., Inc.
Diamond Metal Products Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Eclipse-Pioneer Div., Bendix-Aviation Corp.
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Link-Belt Co.
Packless Metal Products Corp.
Whitney Chain & Mfg. Co.
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See: Cloth, Cover

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Patek & Co.
Press-Williams, Inc.

COVERS, COTTON PRESS

See: Press Covers

COVERS, DUCK PRESS

See: Press Covers

COVERS, MOLESKIN PRESS

See: Press Covers

COVERS, NYLON PRESS

See: Press Covers

COVERS, SATEEN PRESS

See: Press Covers

COVERS, SHEETING PRESS

See: Press Covers

COVERS, SYNTHETIC PRESS

See: Press Covers

COVERS, WOOL PRESS

See: Press Covers

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Louden Machinery Co.

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See: Driers, Woolen and Curtain

CURTAIN HANGERS

See: Hangers, Curtain and Drapery

CURTAIN STRETCHERS

See: Stretchers, Curtain

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CUTTERS, CLOTH

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Gross Machinery Co., Inc.
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Jefferson Wood-Working Co.
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Poland Laundry Machinery Co.
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Super Laundry Machinery Co., Div. St. Joe Machine, Inc.
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Zephyr Laundry Machinery Co.

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B & G Machinery Co.
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Chicago Dryer Co.
Cleveland Rug Cleaning Machinery Co.
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Keystone Laundry Machinery Co.
Mitchell, J. B., Co.
Poland Laundry Machinery Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works
Troy Laundry Machinery Div., American Machine & Metals, Inc.
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Western Laundry Machinery Co.
Zephyr Laundry Machinery Co.

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DAMPENERS, COLLAR AND SEAM

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National Marking Machine Co.

DAMPENERS, SPRAY

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Maxant Button & Supply Co.
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Stafford Co., N.

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See: Lamps, Color-Matching and Daylight

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Solvay Sales Div., Allied Chemical & Dye Corp.
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Stauffer Chemical Co.
Theobald Industries
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An odor neutralizer
Removes *all* objectionable odors
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Turco Products, Inc.
Van Chemical Co.
Wyandotte Chemicals Corp.

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See: Cabinets, Deodorizing and Drying

DEODORIZING MACHINES

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Hammond Laundry-Cleaning Machinery Co.
Hopkins Equipment Co.
Martin Equipment Corp.
Mitchell, J. B., Co.
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See: Builders and Designers

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Keystone Aniline & Chemical Co., Inc.
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Merson Products Co.
Pabst Sales Co.
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West Side Corp.
Wolf, Jacques, & Co.

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Adrian Research & Chemical Co., Inc.
Allen & Vickers, Inc.
Altose Chemical Co.
Armour & Co., Industrial Soap Div.
Atlas Powder Co., Industrial Chemicals Dept.
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Merson Products Co.
Murphy Sales Co.
National Cleaners Chemical Mfg. Co.
Nu-Lite Mfg. Co.
O. D. Chemical Co.
Package Chemical Co., Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

Patek & Co.
Pennsylvania Salt Mfg. Co.
Ravochem Products Co.
Riverside Mfg. Co.
Schundler, F. E., & Co., Inc.
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Davies-Young Soap Co.
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Lewis National Corp.
Magnus Chemical Co., Inc.
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Philadelphia Quartz Co.
Procter & Gamble Distributing Co.
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Roberts-Modaber Co., Inc.
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Van Chemical Co.
West Side Corp.
Wilson, A. L., Chemical Co.
Wolf, Jacques, & Co.
Wonder Wash Corp.
Wyandotte Chemicals Corp.

DETERGENTS, SYNTHETIC

See: Synthetic Detergents

DIAPER BAGS

See: Bags, Diaper

DIAPER-CAN DEODORANTS

Sani-Top Co.

DIAPER CANS

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Sani-Top Co.
Youngstown Container Corp.

DIAPER COUNTERS

See: Counters, Automatic

DIAPERS

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Sani-Top Co.
Smith, X. S., Inc.
Stevenson Co.
Wood, George, Sons & Co.

DIAPER SANITIZING AGENTS

Sterwin Chemicals, Inc.

DIAPER STEAM STERILIZERS

See: Sterilizers, Steam, Diaper

DIESEL ENGINES

See: Engines, Diesel

DIESEL GENERATORS

See: Generators, Electric

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See: Trucks, Industrial

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Trico Chemical Div., Tri-State Equipment Co.
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Wolf, Jacques, & Co.
Wonder Wash Corp.

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DIPPERS, STARCH

Bishop, G. H., Co.

DIP TANKS

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See: Valve Discs

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Texas Soap Mfg. Corp.
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Van Chemical Co.

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DISPENSERS, SOAP

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Hays Corp.
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See: Traps, Drain

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Turco Products, Inc.
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For manufacturers' addresses see MANUFACTURERS' list beginning page 308

DRAPERY HANGERS

See: Hangers, Curtain and Drapery

DRAPERY HOOK PROTECTORS

Cleaners Specialties Supplies Co.

DRESSINGS, BELT

Cassell Belting Co.
Graton & Knight Co.
Heller, R. & Co.
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Standard Oil Co.
Victor Balata & Textile Belting Co.
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Webb Belting Co.
Williams, J. B., & Sons

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National Cleaners Chemical Mfg. Co.
Oakite Products, Inc.
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See: Bags, Dress-Shirt

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Speedy Washer Mfg. Co.
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DRIERS, HAT

See: Hatters' Equipment

DRIERS, HOSIERY AND SOCK

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Huebsch Div., American Laundry Machinery Co.
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General Electric Co.

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See: Chain Drives

DRIVERS' BADGES

See: Badges, Drivers'

DRIVES, "V" BELT

See: "V" Belt Drives

DRUMS, FUR CLEANING

See: Fur Cleaning Equipment

DRYCLEANERS' BAGS

See: Bags, Drycleaners

DRYCLEANING BRUSHES

See: Brushes

DRYCLEANING EXTRACTORS

See: Extractors, Drycleaning

DRYCLEANING PRESSES

See: Presses, Drycleaning, Manually Operated, or Presses, Drycleaning, Power Operated

DRYCLEANING SOAPS

See: Soaps, Drycleaning

DRYCLEANING SOLVENTS, SYNTHETIC

See: Solvent, Chlorinated (Synthetic)

DRYCLEANING SYSTEMS USING PETROLEUM SAFETY SOLVENT

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Martin Equipment Corp.

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MORE THAN DRYCLEANING
MARTIN EQUIPMENT CORP.
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See Ad on Page 184

Pantex Mfg. Corp.
Perry, E. J., & Co.
Prosperity Co., Inc.
Sec-O-Matic Corp.

SEC Cleaning Systems
Complete cleaning units to meet your every need.
SEC-*cleanized*
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CLEVELAND 10, OHIO

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Young, John W.

DRYCLEANING TUMBLERS

See: Tumblers, Drycleaning

DRYCLEANING WASHERS

See: Washers, Drycleaning, Metal, or Washers, Drycleaning, Wood

DRYING CABINETS

See: Cabinets, Deodorizing and Drying

DRYROOMS

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Chief Mfg. Co.
Gross Machinery Co., Inc.
Hammond Laundry-Cleaning Machinery Co.
Hopkins Equipment Co.
Kisco Boiler & Engineering Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
United Vacuum Appliance Corp.

DUCK APRONS

See: Aprons, Canvas or Duck

DUCK COVERS

See: Press Covers or Cloth, Cover

DUMBWAITERS

Lewis-Shepard Products, Inc.

DUMP VALVES, WASHER

See: Valves, Washer Dump

DUPLICATING MACHINES

Addressograph-Multigraph Corp.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

DUSTERS, RUG AND CARPET

American Laundry Machinery Co.
Chief Mfg. Co.
Cleveland Rug Machinery Co.
Superior Rug Machinery Co.
United Vacuum Appliance Corp.

DUSTING WHEELS, RUG AND CARPET

See: Rug and Carpet Cleaning Equipment

DYE DIPPERS

See: Dippers, Dye

DYEING, GARMENT

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Almore Dye House
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Central Dyeing Co.
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Continental Dyers
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Tru Color Dye Works
Volk, Lawrence B.

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Davies-Young Soap Co.
Eaton Chemical & Dyestuff Co.
Kirk's Leather Cleaners
La France Dye House
Renards'
Tru Color Dye Works

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See: Meters, Electric

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See: Governors, Engine

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For manufacturers' addresses see MANUFACTURERS' list beginning page 308

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See: Pumps, Feed-Water

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See: Ribbons, Feed

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See: Ribbons, Feed

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See: Boiler Feed Systems

FEED-WATER CONTROLS

See: Controls and Regulators (under specific headings)

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See: Heaters, Feed-Water

FEED-WATER METERS

See: Meters, Feed-Water

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FEED-WATER REGULATORS

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See: Filter Felts

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See: Connectors, Flexible

FLEXIBLE COUPLINGS

See: Couplings, Flexible

FLEXIBLE METAL HOSE

See: Hose, Flexible Metal

FLEXIBLE STEAM JOINTS

See: Joints, Flexible Steam

FLOATS, STEAM TRAP (REPLACEMENT)

Keckley, O. C., Co.
Nicholson, W. H., & Co.
Sterling, Inc.
Sterling Engineering & Mfg. Corp. (Templeton Mfg. Co.)
Webster, Warren, & Co.

FLOAT SWITCHES

See: Switches, Float-Operated

FLOAT TRAPS

See: Traps, Float

FLOAT VALVES

See: Valves, Float

FLOOR CLEANING, SCRUBBING AND POLISHING MACHINES

Advance Machine Co.
Breuer Electric Mfg. Co.
Certified Chemical & Equipment Co.
Continental Car-Na-Var Corp.
Hild Floor Machine Co.
Hoit Mfg. Co.
Huntington Laboratories, Inc.
Multi-Clean Products, Inc.
Superior Rug Machinery Co.
United Vacuum Appliance Corp.

FLOOR COVERING

American Abrasive Metals Co.
Brabrook, A. N.
Carey, Philip, Mfg. Co.
Fremont Rubber Co.
Johns-Manville
Monroe Co., Inc.
Wagner Awning & Mfg. Co.

FLOOR MATS

See: Mats, Floor

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

FLOOR RESURFACING MATERIALS

American Abrasive Metals Co.
Continental Car-Na-Var Corp.
Horn, A. C., Co., Inc.
Huntington Laboratories, Inc.
Johns-Manville
Midland Paint & Varnish Co.
Monroe Co., Inc.
Sonneborn, L., Sons, Inc.
Steelcote Mfg. Co.
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FLOOR SCALES

See: Scales

FLOOR SEALING AND REPAIR MATERIAL

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Continental Car-Na-Var Corp.
Franklin Research Co.
General Chemical Div., Allied Chemical & Dye Corp.
Mild Floor Machine Co.
Horn, A. C., Co., Inc.
Huntington Laboratories, Inc.
Midland Paint & Varnish Co.
Multi-Clean Products, Inc.
Sonneborn, L., Sons, Inc.
Steelcote Mfg. Co.
Turco Products, Inc.

FLOOR WAX

See: Wax, Floor

FLOW CONTROLS

See: Controls and Regulators (under specific headings)

FLOW METERS

See: Meters, Flow

FLOW-RATE INDICATORS

See: Indicators, Flow-Rate

FLOW RECORDERS

See: Recorders, Flow

FLOW REGULATORS

See: Controls and Regulators (under specific headings)

FLUES, STEEL SMOKE

Graver Tank & Mfg. Co., Inc.

FLUFFERS, HANDKERCHIEF

American Laundry Machinery Co.
Huebsch Div., American Laundry Machinery Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

FLUID METERS

See: Meters, Fluid

FLUORESCENT LAMPS

See: Lamps, Fluorescent

FLUORIDE, AMMONIUM ACID

See: Sours

FLUORIDE, SODIUM ACID

See: Sours

FLUORIDE, SODIUM SILICO

See: Sours

FLUTING MACHINES

Chandler Machine Co.
Maxant Button & Supply Co.

FOG FIRE-FIGHTING UNITS

See: Extinguishers, Fire

FOG GENERATORS

See: Insecticide Spray Equipment

FOLDERS, FLATWORK IRONER

See: Flatwork Ironer Folders

FOLDING MACHINES

American Laundry Machinery Co.
Bishop, G. H., Co.
Forse Equipment Corp.
Pioneer Development Co.
Prosperity Co., Inc.
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
Time Savers, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

FOLDING TABLES

American Laundry Machinery Co.
Bishop, G. H., Co.
Carll, Chas. W., Sons
Forse Equipment Corp.
Prosperity Co., Inc.
Time Savers, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.

FOLDING TRUCKS, CANVAS

See: Trucks, Industrial

FORMS, COLLAR

See: Collar Forms

FORMS, GLOVE

See: Glove Forms

FORMS, HOSIERY

See: Hosiery and Sock Forms

FORMS, NECKWEAR

Winner, Joe L.

FORMS, OVERALL

See: Overall Forms

FORMS, POCKET

See: Pocket Forms

FORMS, SLEEVE

See: Sleeve Forms

FORMS, TROUSER

See: Trouser Forms

FORMULA CONTROL

See: Controls and Regulators, Washer Formula

FOUNTAIN PENS, MARKING

Mark-O Corp.

FOUNTAINS, DRINKING

See: Drinking Fountains

FREQUENCY CHANGERS

Beloi Industrial Equipment Div.
Kato Engineering Co.

FRICTION MATERIAL, BRAKES, CLUTCHES, ETC.

Johns-Manville
Raybestos-Manhattan, Inc.
Wood's, T. B., Sons Co.

FUEL ECONOMIZERS

See: Economizers, Fuel

FUEL-OIL HEATERS

See: Heaters, Fuel-Oil

FUME-RESISTING PAINT

See: Paint

FUMIGANTS

Adco, Inc.
Allen & Vickers, Inc.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Dow Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
Haertel, Walter, Co.
Huntington Laboratories, Inc.
Nyco Products Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works
Riverside Chemical Co., Inc.
Sirotta, Bernard, Co.
Stauffer Chemical Co.
Westvaco Chemical Corp., Food Machinery & Chemical Corp.

FUMIGATING VAULTS

See: Vaults, Fumigating

FUNNELS

Goodrich, B. F., Co.
Lunkenheimer Co.

FUR CLEANING DRUMS

See: Fur Cleaning Equipment

FUR CLEANING EQUIPMENT

American Pressboard Co.
Bonis Bros. Fur Machinery Corp.
Carman & Co., Inc.
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Sirotta, Bernard, Co.

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Davis-Weil Mfg. Co.
Dixo Co.
Dow Chemical Co.
Drew, E. F., & Co., Inc.
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Bixbee Research Div. of Blazemaster, Inc.

RESTORE EXPENSIVE FURS AND SUEDES WITH
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For DETAILS See Page 215

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Mortemoth Chemical Laboratories
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Sirotta, Bernard, Co.

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Nyco Products Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Sirotta, Bernard, Co.

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Hopkins Equipment Co.
Nyco Products Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Rost & Co.
Sirotta, Bernard, Co.

FUR GARMENT BAGGERS

See: Baggers, Garment

FUR GLAZERS

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Haertel, Walter, Co.
Nyco Products Co.
Philadelphia Quartz Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Rost & Co.
Sirotta, Bernard, Co.

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Atlantic Stainproof Co., Inc.
Haertel, Walter, Co.
Jay-Dee, Inc., Mfg. Chemists
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Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Security Fur Seal Co., Inc.
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See: Identification Systems, Fur

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FURNACE CEMENT

See: Cement, Furnace, Asbestos

FURNACE INSPECTION DOORS

See: Doors, Furnace Inspection

FURNACE WALLS

Green, A. P., Fire Brick Co.
Johns-Manville
McLeod & Henry Co., Inc.
Mexico Refractories
Plibrico Jointless Firebrick Co., Div. S. Obermayer Co.
Ramtite Co., Div. S. Obermayer Co.

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Bauer, Samuel, & Sons, Inc.
Eckert Richmond Co.
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Kaplan, David G., Dryeleaner's Service (Katt Furs)
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Sirotta, Bernard, Co.

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FUR VAULT COOLING UNITS

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FUSES, ELECTRIC

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GARMENT BAGGERS

See: Baggers, Garment

GARMENT BAGS

See: Bags, Garment

GARMENT CARRIERS

See: Carts, Garment

GARMENT DRIERS

See: Driers, Garment, Hot-Air

GARMENT DYEING

See: Dyeing, Garment

GARMENT DYES

See: Dyes

GARMENT FINISHERS, STEAM-AIR

See: Steam-Air Finishers, Garment

GARMENT HANGERS

See: Hangers, Garment

GARMENT PRESSES

See: Presses (under specific headings)

GARMENT RACKS

See: Racks, Garment

GARMENT SHAPER-DRIER

See: Shaper-Drier, Garment

GARMENT STEAMERS

See: Steam-Air Finishers, Garment

GAS BURNERS

See: Burners, Gas

GAS-ELECTRIC TRUCKS

See: Trucks, Industrial

GAS ENGINES

See: Engines, Gas

GASKET CEMENT

See: Cement, Gasket

GASKET COMPOUND

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Garlock Packing Co.
Goodrich, B. F., Co.
National Chemical Sales Co., Laboratory, Inc.
Radiator Specialty Co.
Resistoflex Corp.
Steelcote Mfg. Co.
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Hapman-Dutton Co., Dutton Boiler Div.
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Raybestos-Manhattan, Inc.
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GAS METERS

See: Meters, Gas

GAS-OIL BURNERS

See: Burners, Gas-Oil

GASOLINE MOTOR TRUCKS

See: Trucks, Motor

GATE VALVES

See: Valves, Gate

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Marsh, Jas. P., Corp.
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Manning, Maxwell & Moore, Inc.
U. S. Gauge Div., American Machine & Metals, Inc.
Westinghouse Air Brake Co., Industrial Products Div.

GAUGES, DRAFT

See: Draft Gauges

GAUGES, LIQUID LEVEL

Ashton Valve Co.
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

Defender Instrument & Regulator Co.
Fischer Instrument Corp.
Foxboro Co.
Hays Corp.
Liquidometer Corp.
Lunkenheimer Co.
Manning, Maxwell & Moore, Inc.
Oil-Rite Corp.
Stewart-Warner Corp., Alemite Corp.
U. S. Gauge Div., American Machine & Metals, Inc.
Wallace & Tiernan Products, Inc.
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Wallace & Tiernan Products, Inc.

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Foxboro Co.
Hays Corp.
Manning, Maxwell & Moore, Inc.
Mason-Neilan Regulator Co.
Moeller Instrument Co., Inc.
Taglabue, C. J., Div., Portable Products Corp.
U. S. Gauge Div., American Machine & Metals, Inc.

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Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Crosby Steam Gage & Valve Co.
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Foxboro Co.
Manning, Maxwell & Moore, Inc.
Marsh, Jas. P., Corp.
Pertex Corp.
Sterling, Inc.
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Webster, Warren, & Co.

GAUGES, TEMPERATURE

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Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Defender Instrument & Regulator Co.
Electric Auto-Lite Co.
Foxboro Co.
Manning, Maxwell & Moore, Inc.
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Moeller Instrument Co., Inc.
Pertex Corp.
Powers Regulator Co.
Pyrometer Instrument Co., Inc.
Sterling, Inc.
Stewart-Warner Corp., Alemite Corp.
Taglabue, C. J., Div., Portable Products Corp.
U. S. Gauge Div., American Machine & Metals, Inc.
Weston Electric Instrument Corp.

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Crosby Steam Gage & Valve Co.
Foxboro Co.
Lunkenheimer Co.
Manning, Maxwell & Moore, Inc.
Stewart-Warner Corp., Alemite Corp.
U. S. Gauge Div., American Machine & Metals, Inc.
Wright-Austin Co.
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GAUGE TESTERS

See: Testers, Gauge

GEARS, STOCK

Boston Gear Works, Inc.
Greaves Machine Tool Co.
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See: Spot Removers

GENERATORS, BLEACH

See: Bleach-Making Machines

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Century Electric Co.
Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works
Diehl Mfg. Co., Electric Div. Singer Mfg. Co.
Electric Steam Boiler Sales, Div. Wolf Co.
Elliott Co.
General Electric Co.
Kato Engineering Co.
Reliance Electric & Engineering Co.
Robot Laundry Machinery Sales
Troy Engine & Machine Co.
Worthington Pump & Machinery Corp.

GENERATORS, FOG

See: Insecticide Spray Equipment

GENERATORS, STEAM

See: Boilers and Steam Generators

GERMICIDES

See: Antiseptics, Bleaches, Sours

GLASS CLOTH, WOVEN

See: Cloth, Glass, Woven

GLASSINE SHIRT ENVELOPES

See: Envelopes, Shirt

GLAZERS, FUR

See: Fur Glazers

GLAZING FLUID, FUR

See: Fur Glazing Fluid

GLOBE VALVES

See: Valves, Globe

GLOVE CASES

See: Cases, Glove

GLOVE CLEANING MACHINES

Sabin Machine Co.

GLOVE FORMS

Shedlov-Heinz Mfg. Co.

GLOVE SOAPS

See: Soaps, Glove

GLUES AND GUMS

American Writing Ink Co., Inc.
Armour & Co., Industrial Soap Div.
Mutual Paper Box Co., Inc.
National Starch Products, Inc.

GO-BACK CONVEYORS

See: Conveyors, Go-Back

GOVERNORS, AUTOMOBILE

Hoof Products Co.

GOVERNORS, ENGINE

Hoof Products Co.

GOVERNORS, OIL-BURNER

Engineer Co.
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GOVERNORS, POWER PRESSING MACHINES

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Leslie Co.
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Squires, C. E., Co.
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GOVERNORS, TURBINE

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GRAVITY ROLLER CONVEYORS

See: Conveyors (under specific headings)

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Cooks, Adam, Sons, Inc.
Grauer Research & Mfg. Co.
Gulf Oil Corp., Gulf Refining Co.
Houghton, E. F., & Co.
Keystone Lubricating Co.
Lubriplate Div., Fiske Bros. Refining Co.
Phoenix Oil Co.
Stewart-Warner Corp., Alemite Corp.
Texas Co.
Union Oil Co. of California

GUARDS, BELT

Kirk & Blum Mfg. Co.
Para-Lux Products Co.

GUARDS, HAT

See: Hat Guards

GUARDS, LAMP

Industrial Products Co.

GUARDS, MACHINE (BELT, FLYWHEEL, GEAR, ETC.)

Carll, Chas. W., Sons
Kirk & Blum Mfg. Co.
Wright-Austin Co.

GUARDS, SAFETY

See: Safety Guards

GUARDS, TROUSER

See: Trouser Guards

GUIDE RACKS

Para-Lux Products Co.

GUMMED TAPE

See: Tape, Gummed

GUMS

See: Glues and Gums

GUNS, SPRAY

See: Spray Guns

HAMPERS

See: Baskets, Canvas

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Davis Emergency Equipment Co., Inc.
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Magnus Chemical Co., Inc.
Mine Safety Appliance Co.
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Tarbonis Co.

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A treatment for the relief of skin irritations caused by solvents, caustics and alkalies; also protects against further accurrence. Samples upon request.

The **Tarbonis** *Company*

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See: Hoists

HANDKERCHIEF CONVEYORS

See: Conveyors, Handkerchief

HANDKERCHIEF FLUFFERS

See: Fluffers, Handkerchief

HANDKERCHIEF IRONERS

See: Irons, Handkerchief

HANDKERCHIEF REPLACEMENTS

See: Replacements, Sheets, Pillowcases, etc.

HAND TRUCKS

See: Trucks, Industrial

HANGER BLOCKS

See: Blocks, Hanger and Pillow

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See: Capes, Wire-Hanger

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The Original

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HANGER RACKS

See: Racks, Hanger

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Clopay Corp.
Faetik Co.
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Kwik Kover Sales Co.
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Loroco Industries, Inc.
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Memphis Hanger Co.
Mutual Paper Box Co., Inc.
Nagel Coat Hanger Co.
Pacific Coat Hanger Mfg. Co.
Para-Lux Products Co.
Patek & Co.
Phoenix Products Co.
Pittsburgh Hanger Co.
Rosenthal Paper Co.
Spear Box Co., Inc.
Steinman Paper Co.
Sure-Hold Div., Nashua Gummed & Coated Paper Co.
Tillery Container Co.
West Side Corp.

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Pacific Coat Hanger Mfg. Co.
Para-Lux Products Co.
Phoenix Products Co.
Pittsburgh Hanger Co.
Star Service Hanger, Div. L. A. Young Spring & Wire Corp.
Steinman Paper Co.

HANGERS, DRIER

Bussard, R. D., & Son
United Vacuum Appliance Corp.

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Carman & Co., Inc.
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FOR EVERY PURPOSE

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Dixie Hanger Co.
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Gromauer, M. H., Co.
Henry Hanger Co.
International Wire Hanger Mfg. Co.
Kate Bag Co.
Laidlaw, W. A., Wire Co.
M. & R. Metal Products Co.
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Prym, William, Inc.
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Paulin Products Co.
Phoenix Products Co.
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HANGERS, PIPE AND SHAFT

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HANGERS, REVOLVING SHIRT

American Laundry Machinery Co.
Bishop, G. H., Co.

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See: Rug and Carpet Cleaning Equipment

HANGING SCALES

See: Scales

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Huntington Laboratories, Inc.
Multi-Clean Products, Inc.
Philadelphia Quartz Co.
Sonneborn, L., Sons, Inc.

HAT-BLOCKING MACHINES

See: Blocking Machines, Hat

HAT GUARDS

American Hatters Supplies, Inc.
Automatic Paper Box Corp.
Brooks, Alfred J.
Hatters Supply House, Inc.
Phoenix Products Co.
Rosenthal Paper Co.
Spear Box Co., Inc.
West Side Corp.

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American Hatters Supplies, Inc.

AMERICAN
HATTERS SUPPLIES, INC.
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Founded 1909
Mfgrs. of that famous Gold Medal Line of Hatters Chemicals and Equipment. Have you received our new Catalog yet? If not, write now.
IF IT'S FOR HATS—WE HAVE IT

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

J & L Mfg. Co.
Maxant Button & Supply Co.
Pantex Mfg. Corp.
U. S. Hoffman Machinery Corp.

HATTERS' SUPPLIES

Allen & Vickers, Inc.
American Hatters Supplies, Inc.
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Greenville Chemical Co.
Hatters Supply House, Inc.
Keystone Aniline & Chemical Co., Inc.
Maxant Button & Supply Co.
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HEAD PLATES (PRESSING MACHINES)

See: Press Plates

HEATERS, AIR

Carrier Corp.
Clarage Fan Co.
Cutler-Hammer, Inc.
Davis Engineering Corp.
Dravo Corp.
Peabody Engineering Corp.
Sellers Engineering Corp.
Whitlock Mfg. Co.
Young Radiator Co.

HEATERS, BLAST

Carrier Corp.
Clarage Fan Co.
Modine Mfg. Co.
Murray, D. J., Mfg. Co.
Peabody Engineering Corp.
Sellers Engineering Corp.
Trane Co.
Young Radiator Co.

HEATERS, FEED-WATER

American Water Softener Co.
Brownell Co.
Cochrane Corp.
Davis Engineering Corp.
Elliott Co.
Graver Tank & Mfg. Co.
Hapman-Dutton Co., Dutton Boiler Div.
Marshall Heater Co.
Patterson-Kelley Co., Inc.
Peabody Engineering Corp.
Refinite Corp.
Schaub, Fred H., Engineering Co., Inc.
Schutte & Koerting Co.
Taco Heaters, Inc.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.

HEATERS, FUEL-OIL

Aereo Corp.
American District Steam Co.
Anthony Co.
Davis Engineering Corp.
Engineer Co.
General Electric Co., Air Conditioning Dept.
Hapman-Dutton Co., Dutton Boiler Div.
National Airoil Burner Co., Inc.
Patterson-Kelley Co., Inc.
Peabody Engineering Corp.
Petroleum Heat & Power Co.
Schutte & Koerting Co.
Taco Heaters, Inc.
Whitlock Mfg. Co.

HEATERS, INSTANTANEOUS

Aereo Corp.
American District Steam Co.
Davis Engineering Corp.
Johnson Corp.
Marshall Heater Co.
O'Brien Steam Specialty Co., Inc.
Patterson-Kelley Co., Inc.
Pick Mfg. Co.
Taco Heaters, Inc.
Whitlock Mfg. Co.

HEATERS, SOLVENT

Bowser, Inc.
Whitlock Mfg. Co.

HEATERS, UNIT

American Laundry Machinery Co.
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Clarage Fan Co.
Dravo Corp.
General Electric Co.
Ig Electric Ventilating Co.
Kisco Boiler & Engineering Co.
Modine Mfg. Co.
Murray, D. J., Mfg. Co.
Radiant Drying Co.
Trane Co.
Webster, Warren, & Co.
Young Radiator Co.

HEATERS, WATER

Aereo Corp.
Alert Engineering Products
American District Steam Co.
American Water Softener Co.
Brady Engineering Corp.
Brownell Co.
Clayton Mfg. Co.
Crane Co.
Cutler-Hammer, Inc.
Cyclotherm Corp.
Davis Engineering Corp.
Graver Tank & Mfg. Co.
Hammel-Dahl Co.
Hapman-Dutton Co., Dutton Boiler Div.
Johnson Corp.
Kelvinator Div., Nash-Kelvinator Corp.
Kewanee Boiler Corp.
Lookout Boiler & Mfg. Co.
Marshall Heater Co.
O'Brien Steam Specialty Co., Inc.
Patterson-Kelley Co., Inc.
Peabody Engineering Corp.
Petroleum Heat & Power Co.
Pick Mfg. Co.
Ray Oil Burner Co.
Sellers Engineering Co.
Speedy Washer Mfg. Co.
Sterling, Inc.
Stout, David, & Sons
Taco Heaters, Inc.
Whitlock Mfg. Co.

HEATERS, WATER STORAGE

Alert Engineering Products
American District Steam Co.
Brownell Co.
Davis Engineering Corp.
Hapman-Dutton Co., Dutton Boiler Div.
Kewanee Boiler Corp.
Marshall Heater Co.
O'Brien Steam Specialty Co., Inc.
Patterson-Kelley Co., Inc.
Peabody Engineering Corp.
Petroleum Heat & Power Co.
Sellers Engineering Co.
Stout, David, & Sons
Taco Heaters, Inc.
Whitlock Mfg. Co.

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Aereo Corp.
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Brownell Co.
Davis Engineering Corp.
Graver Tank & Mfg. Co.
Hapman-Dutton Co., Dutton Boiler Div.
Patterson-Kelley Co., Inc.
Schaub, Fred H., Engineering Co., Inc.
Schutte & Koerting Co.
Stout, David, & Sons
Trane Co.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.
Young Radiator Co.

HEATING AND COOLING COILS

See: Coils, Heating and Cooling

HEAT RECLAIMERS

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American District Steam Co.
Brady Engineering Corp.
Davis Engineering Corp.
Patterson-Kelley Co., Inc.
Stout, David, & Sons
Whitlock Mfg. Co.

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See: Tape, Mending, Heat-Sealing

HIGH WATER ALARMS

See: Alarms, High and Low Water

HOISTS

American Engineering Co.
American Monorail Co.
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Superior Rug Machinery Co.
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Wayne Pump Co.

HOLDERS, BAG AND NET

Bishop, G. H., Co.
National Marking Machine Co.
Steinman Paper Co.
Time Savers, Inc.
Wagner Awning & Mfg. Co.

HOOKS, ASSEMBLY

See: Assembly Hooks

HOSE, FLEXIBLE METAL

American Brass Co., American Metal Hose Branch
Chicago Metal Hose Div., Flexonics Corp.
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ALL TYPES OF PRESSES
JOHNSON METAL HOSE, Inc.
9 SPERRY STREET WATERBURY, CONN.

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Packless Metal Products Corp.

Packless Metal Products Corp.
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Flexible bronze hose units for all pressing machines.
See ad on page 9

Seamless Co., Inc.
Zallea Bros.

HOSE REELS

See: Reels, Hose

HOSE, RUBBER

Ace Hose & Rubber Co.
DeVilbiss Co.
Gates Rubber Co.
Goodrich, B. F., Co.
Johnson Metal Hose, Inc.
Newhouse Co.
Raybestos-Manhattan, Inc.
U. S. Rubber Co.
United Vacuum Appliance Corp.

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Cissell, W. M., Mfg. Co., Inc.
Huebsch Div., American Laundry Machinery Co.

HOSIERY DRIERS

See: Driers, Hosiery and Sock

HOSIERY IRONERS

See: Ironers, Hosiery

HOT-WATER SYSTEMS

Aereo Corp.
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Huebsch Div., American Laundry Machinery Co.
Mothest Sales Co.
Patterson-Kelley Co., Inc.
Sterling, Inc.
Stout, David, & Sons
Taco Heaters, Inc.

HUMIDIFIERS

Armstrong Machine Works
Bahnson Co.
Murray, D. J., Mfg. Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Spray Engineering Co.
Steel Products Engineering Co.

HYDRAULIC HOISTS

See: Hoists

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See: Bleach

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Mathieson Chemical Corp.
Pennsylvania Salt Mfg. Co.
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See: Thermometers, Indicating

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See: Heaters, Instantaneous

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See: Identification Systems

INVISIBLE MARKING INK

See: Ink, Invisible Marking

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See: Stain Removers

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Poland Laundry Machinery Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
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See: Hatters' Equipment

IRONERS, HOSIERY

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New York Pressing Machinery Corp.
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See: Tape, Ironer

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New York Pressing Machinery Corp.
Poland Laundry Machinery Co.
Steele, J. W., & Co.
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See: Sleeve Boards

IRONING FORMS, EXPANDING

See: Expanding Ironing Forms

IRONING-ROOM CONVEYORS

See: Conveyors, Ironing-Room

IRON-REMOVAL EQUIPMENT, WATER TREATMENT

See: Water Treatment Equipment

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Bishop, G. H., Co.
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U. S. Hoffman Machinery Corp.

IRONS, PUFF

See: Puff Irons

IRONS, ROTARY, FUR

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IRONS, SPRAY

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See: Wax, Japan

JARS

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JOINTS, EXPANSION

See: Expansion Joints

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See: Moisteners, Label

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LAUNDRY DYES
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LAUNDRY EXTRACTORS
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STITT-REED, Inc.
formerly Kirk-Reed, Inc.
Expert Leather Cleaning
Stitt-Reed, Inc.
8432 44th Place Lyons, Ill.

Susdeare, Inc.

LEATHER CLEANING SOAPS
See: Soaps, Leather Cleaning

LEATHER DYEING
See: Dyeing, Leather

LEATHER SOFTENERS
Bixbee Research Div. of Blazemaster, Inc.
Caled Products Co., Inc.
Keystone Analine & Chemical Co., Inc.
Nyco Products Co.
Package Chemical Co., Inc.
Sinetta, Bernard, Co.
Spix Products Co.

LEVEL RECORDERS, BOILER
See: Recorders, Boiler Level

LIFT TRUCKS
See: Trucks, Industrial

LIGHTING FIXTURES
Crystalite Co., Inc.
Dahl Mfg. Co., Electrical Div. Singer Mfg. Co.
Donnell Co.
General Luminescent Corp.
Guth, Edwin F., Co.
Miller Co.
Revere Electric Mfg. Co.
Sun Fluorescent Electric Co.

LIME SOAP SOLVENT
See: Solvent, Lime Soap

LINEN MARKERS
See: Markers, Linen

LINEN SUPPLIES
American Associated Cos.
Binderg, Ben, & Co., Inc.
Bostwick-Batterson Co.
Penn Novelty Co.
Reed-Stabon, Inc.
Standard Garment Co.

LINERS, PAPER
Kennedy Car Liner & Bag Co.
Spear Box Co., Inc.

LININGS
United Fabrics Co.

LINT BRUSHES
American Pressboard Co.
Master Products Co.
Newhouse Co.
Perma Products Co.

LIQUID BLEACH
See: Bleach, Liquid

LIQUID CHLORINE
See: Chlorine, Liquid

LIQUID LEVEL CONTROLS
See: Controls and Regulators, Liquid Level

LIQUID LEVEL GAUGES
See: Gauges, Liquid Level

LIQUID LEVEL RECORDERS
See: Recorders, Liquid Level

LIQUID LEVEL REGULATORS
See: Controls and Regulators, Liquid Level

LIQUID STARCH
See: Starch, Liquid

LISTING MACHINES
National Marking Machine Co.

LISTS, PRICE
See: Price Lists

LOCKERS, METAL
Berger Mfg. Div., Republic Steel Corp.

LOW WATER ALARMS
See: Alarms, High and Low Water

LOW WATER FUEL CUTOFFS
See: Boiler Fuel Cutoffs, Low Water

LUBRICANT STARCH
See: Starch, Lubricant

LUBRICATING BEARINGS
See: Bearings, Lubricating

LUBRICATING GREASES
See: Greases, Lubricating

LUBRICATING OILS
See: Oils, Lubricating

LUBRICATING SYSTEMS
Bowser, Inc.
Ingersoll-Rand Co.
Stewart-Warner Corp., Alemite Corp.
Trico Fuse Mfg. Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

MACHINE MARKING IDENTIFICATION SYSTEMS
See: Identification Systems

MACHINERY, USED AND REBUILT
Allen & Vickers, Inc.
Allied Laundry Machinery Corp.
Anchor Laundry Machinery Service, Inc.
American Laundry Machinery Co.
B & G Machinery Co.
Baehr Laundry Machine Co.
California Laundry Equipment Co.
Chicago Dryer Co.
Columbia Laundry Machinery Co.
Cummings-Landau Laundry Machinery Co., Inc.

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By the largest company specializing in
REBUILT EQUIPMENT
Cummings-Landau Laundry Machinery Co., Inc.
305 Ten Eyck St., Brooklyn 6, N. Y.
Tel.: HYacinth 7-1616

Excelsior Machinery Co.
Getzloff, R. B., & Son
Greaves Machine Tool Co.
Hammond Laundry-Cleaning Machinery Co.
Hatters Supply House, Inc.
Imperial Laundry Machinery Co.
Industrial Laundry Machinery Co.
Martin Equipment Corp.
Marvel Mfg. Co.
Mercury Cleaning Systems, Inc.
Mitchell, J. B., Co.
New York Pressing Machinery Corp.
Poland Laundry Machinery Co.
Prosperity Co., Inc.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Sec-O-Matic Corp.
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
Universal Laundry Machinery Co.
U. S. Hoffman Machinery Corp.
United Vacuum Appliance Corp.
Williams Laundry Machinery Co., Inc.
Zephyr Laundry Machinery Co.

MACHINES, ELECTROLYTIC BLEACH-MAKING
See: Bleach-Making Machines

MACHINES, OFFICE
See: Office Machines

MANAGEMENT CONSULTANTS AND ENGINEERS
See: Engineers, Management

MARKERS, LINEN
Applegate Chemical Co.
Carson Textile Co., Inc.
Cash, J. & J., Inc.
National Marking Machine Co.
Penn Novelty Co.
Stadham Co., Inc.
Stafford, N., Co.
Stampograph Co., Inc.

MARKERS, RUBBER
Laurel Co.
Speare Co.
Stafford, N., Co.
Thompson-Hayward Chemical Co.

MARKING FLAGS
See: Flags, Marking

MARKING FOUNTAIN PENS
See: Fountain Pens, Marking

MARKING INK
See: Ink, Indelible Marking, or Ink, Invisible Marking

MARKING INK, INVISIBLE
See: Ink, Invisible Marking

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

MARKING LABELS, WOVEN
See: Labels, Woven, Marking

MARKING MACHINES
Applegate Chemical Co.
American Numbering Machine Co.
Flash-Fast Div., Louis Marks, Inc.
Marvel Marking Machine Co.
National Marking Machine Co.
OsenMark Corp.
Perfection Marking Machine Co.
Pittsburgh Tag Co.

Roberts Numbering Machine Co.
Stegler, George, Co.
Textile Marking Machines Co., Inc.
Triple "M" Inc.

MARKING PENS
See: Pens, Marking, and Marking Fountain Pens

MARKING PINS
Keyes-Davis Co.
Key-Tag Checking System Co.
National Marking Machine Co.
Risdon Mfg. Co.

MARKING ROOMS
American Laundry Machinery Co.
National Marking Machine Co.

MARKING SETS
Ink-O Products Co.

MARKING SYSTEMS
See: Identification Systems

MARKING TABLES
Bishop, G. H., Co.
National Marking Machine Co.
Nutting Truck & Caster Co.
Perfection Products Co.

MARKING TAGS
See: Tags, Marking

MARKING-TAG SEWING MACHINES
See: Sewing Machines, Marking-Tag

MARKING TAPE
See: Tape, Marking

MATS, FLOOR
Brabook, A. N.
Burgess-Berliner Associates
Colonial Rubber Co.
Goodrich, B. F., Co., Inc.
Industrial Products Co.
Pittsburgh Tag Co.
Raybestos-Manhattan, Inc.
Tingue, Brown & Co.
U. S. Rubber Co.

MEASURING CHART, GARMENT
Andreas, M.

MENDING AND DARNING MACHINES
See: Darning and Mending Machines

MENDING TAPE
See: Tape, Mending

MENDING TAPE, HEAT-SEALING
See: Tape, Mending, Heat-Sealing

MERCURY-VAPOR LAMPS
See: Lamps, Mercury-Vapor

METAL BASKETS
See: Baskets, Metal

METAL BEARINGS
See: Bearings, Metal

METAL CHUTES
See: Chutes, Metal

METAL, CORROSION-RESISTANT
Allegheny Ludlum Steel Corp.
Haynes Stellite Co., Unit of Union Carbide & Carbon Corp.
International Nickel Co., Inc.
Midland Paint & Varnish Co.

METAL CYLINDERS
See: Cylinders, Metal

METAL HAND TRUCKS
See: Trucks, Industrial

METAL HOSE, FLEXIBLE
See: Hose, Flexible Metal

METAL LOCKERS
See: Lockers, Metal

METAL, MONEL
International Nickel Co., Inc.

METAL PADS, MONEL
See: Pads and Padding, Press and Ironer

METAL, PERFORATED
Ohio Centrifugals Co.

METAL PICK-UP BOXES
See: Boxes, Metal

METAL POLISH
See: Polish, Metal

METAL, PORCELAIN-ENAMELLED
Erie Enameling Co.

METAL-PROTECTIVE PAINT
See: Paint

METAL ROOFING
See: Roofing, Metal

METAL SHELVING
See: Shelving, Metal

METAL TANKS
See: Tanks, Metal

METAL VATS
See: Vats, Metal

METAL WASHERS
See: Washers (under specific headings)

METAPHOSPHATE
Calgon, Inc.
Rumford Chemical Works
Theobald Industries
Thompson-Hayward Chemical Co.

METASILICATE
Diamond Alkali Co.
DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Philadelphia Quartz Co.
Riverside Chemical Co., Inc.
Theobald Industries
Thompson-Hayward Chemical Co.

METERS, AIR
American District Steam Co.
Bailey Meter Co.
Republic Flow Meters Co.
Roots-Connersville Blower Corp.

METERS, BOILER
Bailey Meter Co.
Republic Flow Meters Co.

METERS, CARBON DIOXIDE (CO_2)
Davis Emergency Equipment Co., Inc.
Defender Instrument & Regulator Co.
Republic Flow Meters Co.

METERS, CONDENSATION
American District Steam Co.

METERS, ELECTRIC
General Electric Co.
Weston Electrical Instrument Corp.

METERS, FEED-WATER
Bailey Meter Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Buffalo Meter Co.
Foxboro Co.

METERS, FLOW
American District Steam Co.
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Fisher & Porter Co.
Foxboro Co.
Hagan Corp.
Proportioneers, Inc.
Republic Flow Meters Co.
Schutte & Koerting Co.

METERS, FLUID
Bailey Meter Co.
Bowser, Inc.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Buffalo Meter Co.
Foxboro Co.
Proportioneers, Inc.
Schutte & Koerting Co.

METERS, GAS
Bailey Meter Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Foxboro Co.
Republic Flow Meters Co.
Roots-Connersville Blower Corp.
Worthington Pump & Machinery Corp.

METERS, pH COLORIMETRIC DETERMINATION
See: pH Control Equipment

METERS, pH ELECTROMETRIC DETERMINATION
See: pH Control Equipment

METERS, STEAM
American District Steam Co.
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Foxboro Co.
Hagan Corp.
Republic Flow Meters Co.

METERS, TIME
Bidwell Manufacturers
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Cramer, R. W., & Co., Inc.
Norman & Co.

METERS, WASHER
Bidwell Manufacturers
Norman & Co.
Rosenthal Mfg. Co.

METERS, WATER
Buffalo Meter Co.
Refinite Corp.
Republic Flow Meters Co.
Worthington Pump & Machinery Corp.

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

MILDEW PREVENTATIVES

Atlantic Stainproof Co.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Carlton Chemical Co., Inc.
Carman & Co., Inc.
Chek Products, Inc.
Cubex Corp.
Dow Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
General Dyestuff Corp.
Germaclean, Inc.
Johnson Chemical Industries, Inc.
Kem Laboratories
Kohnstamm, H., & Co., Inc.
Mallinckrodt Chemical Works
Nuodex Products Co., Inc.
Patek & Co.
Perm-Aseptic Corp.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Research Laboratories Corp.
Sinotta, Bernard, Co.
Thompson-Hayward Chemical Co.
U. S. Rubber Co.
Wolke, A. F., Co.

MILL WHITE PAINT

See: Paint

MIXERS, STARCH

See: Starch Mixers

MODIFIED SODA

See: Soda, Modified

MOISTENERS, LABEL

Better Packages, Inc.

MOLDED RUBBER GOODS

See: Rubber Goods, Molded

MONEL METAL

See: Metal, Monel

MONEL METAL PADS

See: Pads and Padding, Press and Ironer

MONORAIL CONVEYORS

See: Conveyors, Monorail

MONORAIL TROLLEYS

See: Trolleys, Monorail

MOTHPROOFING AGENTS

Adco, Inc.
Adrian Research & Chemical Co., Inc.
American Mothproofing Co.
Atlantic Stainproof Co.
Barrett Div., Allied Chemical & Dye Corp.
Berlou Mfg. Co.
Carman & Co., Inc.
Chek Products, Inc.
Cubex Corp.
Crossland Mfg. Co., Inc.
Dawson Chemical Co.
Drew, E. F., & Co., Inc.
Emery Industries, Inc.
Fumol Corp.

DEPENDABLE MOTH PROTECTION
FUMOL O540 ..... For Petroleum Systems
FUMOL S560 ..... For Synthetic Systems
MOTH SECTOL ..... For Spraying
SECTO FOG ..... For Fogging
FUMOL CORPORATION
Van Dam St. & Borden Ave.,
Long Island City 1, N. Y.

General Dyestuff Corp.
Germaclean, Inc.
Haertel, Walter, Co.
Hardin, J. L., Co., Inc.
Hood Chemical Co., Inc., Crescent Div.
Huntington Laboratories, Inc.
Johnson Chemical Industries, Inc.
Kunford Co.
Kohnstamm, H., & Co., Inc.
Mallinckrodt Chemical Works
Merson Products Co.
Monite Co., Inc.
Mortemoth Chemical Laboratories
National Textile Conservation Co., Div. Research Laboratories Corp.
Nyreo Products Co.
Package Chemical Co., Inc.
Patek & Co.
Patterson Laboratories, Inc.
Pennsylvania Salt Mfg. Co.
Perm-Aseptic Corp.
Per-Mo Products Co.
Riverside Chemical Co.
Savf Mothproofing Co.
Sibur Mfg. Co.
Signal Chemical Mfg. Co.
Sinotta, Bernard, Co.
Slater-Robbins Co., Inc.
Superior Products Co.
Texas Soap Mfg. Corp.
Thompson-Hayward Chemical Co.
Wolke, A. F., Co.

MOTHPROOFING AND FLAMEPROOFING AGENTS, COMBINED

See: Flameproofing and Mothproofing Agents Combined

MOTHPROOFING EQUIPMENT

Crossland Mfg. Co., Inc.
Haertel, Walter, Co.
Hopkins Equipment Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
U. S. Hoffman Machinery Corp.

MOTHPROOF STORAGE BAGS

See: Bags, Storage Mothproof

MOTH REPELLENTS

See: Mothproofing Agents

MOTOR CONTROLS

See: Controls and Regulators, Motor

MOTOR-GENERATOR SETS

Allis, Louis, Co.
Beleo Industrial Equipment Div.
Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works
Diehl Mfg. Co., Electrical Div. Singer Mfg. Co.
Elliott Co.
Kato Electric & Engineering Co.

MOTOR-OPERATED VALVES

See: Valves, Motor-Operated

MOTORS, ELECTRIC

Allis-Chalmers Mfg. Co.
Allis, Louis, Co.
Beleo Industrial Equipment Div.
Century Electric Co.
Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works
Diehl Mfg. Co., Electrical Div. Singer Mfg. Co.
Elliott Co.
Kato Engineering Co.
Reliance Electric & Engineering Co.
Worthington Pump & Machinery Corp.

MOTOR TRUCKS

See: Trucks, Motor

MUSHROOM PRESSES

See: Presses, Mushroom

NAMEPLATES

See: Emblems

NAPHTHAS

American Mineral Spirits Co.
Anderson-Prichard Oil Corp.
Big Ben Petroleum Products Co.
Deep Dock Oil Corp.
Shell Oil Co., Inc.
Socony-Vacuum Oil Co., Inc.
Standard Oil Co.
Union Oil Co. of California

NECKBAND REPLACEMENTS

See: Replacements, Collar, Cuff and Neckband

NECKTIE BAGS

See: Bags, Necktie

NECKTIE CASES

See: Cases, Necktie

NECKTIE HANGERS

See: Hangers, Necktie

NECKTIE PRESSES

See: Presses, Necktie

NET HOLDERS

See: Holders, Bag and Net

NET PINS

See: Pins, Net

NETS, LAUNDRY

American Associated Cos.
Benwall Mfg. Co., Inc.
Bonn, F. H., Co.
Calloway Mills, Inc.
Carman & Co., Inc.
Carson Textile Co., Inc.

Carson Textile Company, Inc.
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Levy, L. & H., Inc.
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Nylon Textile Products Co., Inc.
Pittsburgh Waterproof Co.
Smith, X. S., Inc.
Southern Mills, Inc.
Speare Co.
Tingue, Brown & Co.
Whitehouse Products, Inc.

NEUTRAL LUBRICANT

See: Spotting Agents

NICKEL AND NICKEL ALLOYS

Haynes Stellite Co., Unit of Union Carbide & Carbon Corp.
International Nickel Co., Inc.

NON-RETURN TRAPS

See: Traps, Non-Return

NON-RETURN VALVES, BOILER

See: Valves, Boiler Non-Return

NOZZLES, SPRAY

American-LaFrance-Foamite Corp.
Bishop, G. H., Co.
DeVilbiss Co.
Goodrich, B. F., Co.
National Airod Burner Co.
Newhouse Co.
Spray Engineering Co.
Stewart-Warner Corp., Alemite Corp.
Yarnall-Waring Co.

NUMBERING MACHINES

American Numbering Machine Co.
Keyes-Davis Co.
Roberts Numbering Machine Co.
Stafford, N., Co.

NUTSHELLS, FUR CLEANING

See: Fur Cleaning Supplies

NYLON COVER CLOTH

See: Cloth, Cover

NYLON IRONER TAPE

See: Tape, Ironer

NYLON NETS

See: Nets, Laundry

NYLON PRESS CLOTH

See: Cloth, Press

ODOR ABSORBERS

See: Absorbers, Odor

ODOR ELIMINATORS

Caled Products Co., Inc.
Davies-Young Soap Co.
Germaclean, Inc.
Haertel, Walter, Co.
Kelite Products, Inc.
Kohnstamm, H., & Co., Inc.
Liquid Conditioning Corp.
Mead, George E., Co.
Nyreo Products Co.
Paper Chemicals, Inc.
Perm-Aseptic Corp.
Salomon, L. A., & Bro.
Tureo Products, Inc.

OFFICE MACHINES

Allen, R. C., Business Machines, Inc.
Burroughs Adding Machine Co.
Egry Register Co.
National Cash Register Co.
Simplex Time Recorder Co.
Stafford, N., Co.
Standard Register Co.
Todd Co., Inc.

OIL AND STEAM SEPARATORS

See: Separators, Oil and Steam

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

OIL-BURNER GOVERNORS
See: Governors, Oil-Burner

OIL BURNERS
See: Burners, Oil

OIL COOLERS
See: Coolers, Oil, Water, Air

OIL CUPS
Lunkenheimer Co.
Oil-Rite Corp.
Stewart-Warner Corp., Alemite Corp.
Victor Lubricator Sales Co.

OILERS
Lunkenheimer Co.
Oil-Rite Corp.
Stewart-Warner Corp., Alemite Corp.
Trico Fuse Mfg. Co.
Victor Lubricator Sales Co.

OIL FILTERS
Bowser, Inc.
Johnson Corp.
Liquid Conditioning Corp.
Permutit Co.
Refinite Corp.
U. S. Hoffman Machinery Corp.
Wright-Austin Co.

OILLESS BEARINGS
See: Bearings, Oilless

OIL PUMPS
See: Pumps, Oil

OIL REMOVING FILTERS
See: Filters, Oil-Removing

OILS, LUBRICATING
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
College Chemical Co.
Cook's, Adam, Sons, Inc.
Gulf Oil Corp., Gulf Refining Co.
Houghton, E. F., & Co.
International Metal Polish Co.
Keystone Lubricating Co.
Lubriplate Div., Fiske Bros. Refining Co.
Phoenix Oil Co.
Riverside Chemical Co., Inc.
Sonneborn, L., Sons, Inc.
Standard Oil Co.
Stewart-Warner Corp., Alemite Corp.
Texas Co.
Union Oil Co. of California

OIL SOAPS
See: Soaps, Oil

OILS, SULPHONATED
See: Sulphonated Oils

OIL, TURKEY RED
See: Turkey Red Oil

OPTICAL BLEACH
See: Bleach

ORTHOSILICATE (SODIUM)
See: Sodium Orthosilicate

OVERALL FORMS
Leef Bros., Inc.

OVERALL PRESSES
See: Presses, Overall

OVERFEED STOKERS
See: Stokers

OVERHEAD CONVEYORS
See: Conveyors (under specific headings)

OVERHEAD CRANES
See: Cranes, Overhead Electric

OXALIC ACID
DuPont de Nemours, E. I., & Co., Inc.
Innis, Speiden & Co.
Mallinckrodt Chemical Works
Riverside Chemical Co., Inc.
Victor Chemical Works

OZONE GENERATORS
See: Deodorizing Machines

PACKAGE DISCHARGE CONVEYORS
See: Conveyors, Package Discharge

PACKAGE-TYING MACHINES
See: Bundle Tyers

PACKINGS
Belmont Packing & Rubber Co.
Garlock Packing Co.
Graton & Knight Co.
Houghton, E. F., & Co.
International Steel Wool Corp.
Johns-Manville
Metalastic Mfg. Corp.
Philadelphia Belting Co.
Raybestos-Manhattan, Inc.
U. S. Rubber Co.
Walsh Packing Co.
Warren Belting Co., Inc.

PADDING, ASBESTOS
See: Pads and Padding, Press and Ironer

PADDING, COTTON
See: Pads and Padding, Press and Ironer

PADDING, FELT
See: Pads and Padding, Press and Ironer

PADDING, IRONER
See: Pads and Padding, Press and Ironer

PADS AND PADDING, PRESS AND IRONER
American Associated Cos.
American Hair & Felt Co.
Arrow Mfg. Co., Inc.
Baltimore Specialties Co.
Benwall Mfg. Co.
Bergen Machine Tool Co., Inc., Rande Unit Springs Div.
Bonn, F. H., Co.
Brillo Mfg. Co., Inc.
Burgess-Berliner Associates
Callaway Mills, Inc.
Carson Textile Co., Inc.
Egan Cotton Mills
Firefly Asbestos Products Co.
Franklin Textile Mills
Fullo Corp.
Gustin-Kramer Co.
Hettrick Mfg. Co.
Hooper, Wm. E., & Sons Co.
International Steel Wool Corp.
Jones, C. Walker, Co.
Knitted Padding Co.
Lally, R., Co.
Lewis National Corp.
Magla Products
Manitowoc Cotton Goods Mfg. Co.
Newhouse Co.
Orr Felt & Blanket Co.
Paderaft Corp.
Padright Co.
Patek & Co.
Pittsburgh Tag Co.
Pono-Press Co.
Progressive Textile Mfg. Co.
Quality Products Co.
Resillo Co.

Resillo PRESS PADS
• FLAMONEL (metal flannel)
• STANDARD
• CHAMPION
• FOAMONEL (foam rubber-metal mesh)
• PERFEX
• PERMOPADS
Made in exact accordance with press manufacturers specifications.
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WORLD'S LARGEST EXCLUSIVE MANUFACTURERS OF METAL PRESS PADS

Revolite Div. (Atlas Powder Co.)
Smith, X. S., Inc.
Southern Mills, Inc.
Stadham Co., Inc.
Steinman Paper Co.
Superior Products Co.
Tingue, Brown & Co.
U. S. Hoffman Machinery Corp.
U. S. Rubber Co., Koylon Div.
Western Laundry Press Co.
Whitehouse Products, Inc.
Zedler Mfg. Co.
Zellermayer, Nathan, & Co.
Zuckerberg Co.

PADS, DYE
See: Dye Pads

PADS, IRONER, COTTON
See: Pads and Padding, Press and Ironer

PADS, IRONER, FELT
See: Pads and Padding, Press and Ironer

PADS, IRONER, FLANNEL
See: Pads and Padding, Press and Ironer

PADS, IRONER, HANDKERCHIEF
See: Pads and Padding, Press and Ironer

PADS, MONEL METAL
See: Pads and Padding, Press and Ironer

PADS, PRESS AND IRONER, ASBESTOS
See: Pads and Padding, Press and Ironer

PADS, PRESS, COTTON
See: Pads and Padding, Press and Ironer

PADS, PRESS, FELT
See: Pads and Padding, Press and Ironer

PADS, PRESS, FLANNEL
See: Pads and Padding, Press and Ironer

PADS, PRESS, RUBBER
See: Pads and Padding, Press and Ironer

PADS, PRESS, SPRING
See: Pads and Padding, Press and Ironer

PADS, PRESS, STEEL WOOL
See: Pads and Padding, Press and Ironer

PADS, PRESS, WOVEN
See: Pads and Padding, Press and Ironer

PADS, TUMBLER
Lewis National Corp.
Manitowoc Cotton Goods Mfg. Co.

PAILS, ACID-RESISTING
See: Buckets and Pails, Acid-Resisting

PAINT
American Abrasive Metals Co.
American-Marietta Co.
Barreled Sunlight Paint Co.
Barrett Div., Allied Chemical & Dye Corp.
Devoe & Raynolds Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
Glidden Co.
Horn, A. C., Co., Inc.
Huntington Laboratories, Inc.
Mulland Paint & Varnish Co.
Pittsburgh Plate Glass Co., Paint Div.
Quigley Co., Inc.
Sonneborn, L., Sons, Inc.
Steelcote Mfg. Co.
Subox, Inc.
Tropical Paint & Oil Co.
U. S. Stoneware Co.
Vita-Var Corp.
Wilbur & Williams Co.

PAINT, ALUMINUM
See: Paint

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

PAINT, BRICK, CEMENT, CONCRETE, STONE
See: Paint

PAINT, HEAT-RESISTING
See: Paint

PAINT, METAL-PROTECTIVE
See: Paint

PAINT, MILL WHITE
See: Paint

PAINT, OIL AND GREASE REMOVER
Adco, Inc.
Allen & Vickers, Inc.
Aurora Mfg. Co.
Benda Products, Inc.
Caled Products Co., Inc.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Carman & Co., Inc.
Davies-Young Soap Co.
Dixo Co.
Drew, E. F., & Co., Inc.
Dunaway & Co., H. D.
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Northeastern Soap & Chemical Co.
Oakite Products, Inc.
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Park & Co.
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Philadelphia Quartz Co.
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Riverside Chemical Co., Inc.
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Slater-Robbins Co., Inc.
Spix Products Co.
Stadham Co., Inc.
Steviosto Mfg. Co.
Street, R. R., & Co., Inc.
Turco Products, Inc.
Vita-Var Corp.
West Sale Corp.
Wilson, A. L., Chemical Co.
Wyandotte Chemicals Corp.

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Westinghouse Air Brake Co., Industrial Products Div.

PAINT, STEAM- AND FUME-RESISTING
See: Paint

PAINT, TRUCK
See: Paint

PAINT, WOOD
See: Paint

PANTS BAGS
See: Bags, Pants or Trouser

PAPER, ASBESTOS
See: Asbestos Paper

PAPER BANDS
See: Bands, Paper

PAPER BOXES
See: Boxes, Fiber and Paper

PAPER HANGERS
See: Hangers, Garment

PAPER LAUNDRY BAGS
See: Bags, Laundry, Paper

PAPER LINERS
See: Liners, Paper

PAPER SHIRT ENVELOPES
See: Envelopes, Shirt

PAPER, WETWASH
Hollingsworth & Vose Co.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
Spear Box Co., Inc.
Steinman Paper Co.

PAPER WRAPPERS
See: Wrappers, Paper

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Bond Street Bag & Paper Corp.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
McGrane Bros.
Norman & Co.
Rosenthal Paper Co.
Spear Box Co., Inc.
Steinman Paper Co.

PASTE SOAPS
See: Soaps, Drycleaning

PEARL BUTTONS
See: Buttons

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American Aniline Products, Inc.
Apex Chemical Co., Inc.
Caled Products Co., Inc.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
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Drew, E. F., & Co., Inc.
General Aniline & Film Corp., Special Products Sales Div.
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Kelite Products, Inc.
Keystone Aniline & Chemical Co., Inc.
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Mark-O Corp.
Mark-Tex Corp.
National Marking Machine Co.
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See: Metal, Perforated

PETROLEUM SOLVENT, SAFETY
See: Solvent, Safety Petroleum

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Beico Industrial Equipment Div.
Bristol Co.
Cambridge Instrument Co., Inc.
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Foxboro Co.
Hellige, Inc.
Kem Laboratories
Macbeth Corp.
National Aluminate Corp.
National Technical Laboratories
Permutit Co.
Proportioneers, Inc.
Refinite Corp.
Tagliabue, C. J., Div., Portable Products Corp.
Taylor, W. A., & Co.

pH INDICATORS
See: Indicators, pH

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Taylor, W. A., & Co.

PHOSPHATE, SODIUM TETRA-
See: Sodium Tetraphosphate

PHOSPHATE TEST KITS
See: Test Kits, Phosphate

PHOSPHATE, TRISODIUM
See: Trisodium Phosphate

PHOTOELECTRIC CONTROLS
See: Controls and Regulators, Photoelectric

pH TEST KITS
See: Test Kits, pH Control

PICK-UP BOXES, METAL
See: Boxes, Metal

PILLOW BLOCKS
See: Blocks, Hanger and Pillow

PILLOWCASE REPLACEMENTS
See: Replacements, Sheets, Pillowcases etc.

PILLOWCASES
See: Replacements, Sheets, Pillowcases, etc.

PILLOW-FEATHER STERILIZING MACHINES
See: Sterilizing Machines, Pillow-Feather

PILLOW TICKINGS
See: Tickings

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See: Identification Systems

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National Marking Machine Co.
Stadham Co., Inc.

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Drew, E. F., & Co., Inc.
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Roberts-Modaber Co., Inc.
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Thompson-Hayward Chemical Co.
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Keyes-Davis Co.
National Marking Machine Co.
Pryn, William, Inc.
Risdon Mfg. Co.
Steinman Paper Co.
United Vacuum Appliance Corp.

PINS, MARKING
See: Marking Pins

PINS, NET
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Key-Tag Checking System Co.
National Marking Machine Co.
Risdon Mfg. Co.
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PITTSBURGH TAG COMPANY

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Safety Pins Straight Pins
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Steinman Paper Co.

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National Marking Machine Co.
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Haynes Stellite Co., Unit of Union Carbide & Carbon Corp.
Johns-Manville
Kirk & Blum Mfg. Co.
Revere Copper & Brass, Inc.

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U. S. Rubber Co.

PIPE, ASBESTOS CEMENT
Johns-Manville

PIPE, CAST-IRON
Brady Conveyors Corp.

PIPE, COPPER AND BRONZE
Bridgeport Brass Co.
Chase Brass Co.
Revere Copper & Brass, Inc.

PIPE COUPLINGS
See: Couplings, Pipe

PIPE COVERING, ASBESTOS
See: Insulation, Pipe and Boiler

PIPE CUTTERS AND THREADERS
Beaver Pipe Tools, Inc.

PIPE FITTINGS
See: Fittings, Pipe

PIPE INSULATION
See: Insulation, Pipe and Boiler

PIPE-JOINT CLAMPS
See: Clamps, Pipe-Joint

PIPE-JOINT COMPOUND
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Bowser, Inc.
Crane Co.
DuPont de Nemours, E. I., & Co., Inc.
Keystone Lubricating Co.
Quigley Co., Inc.

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See: Strainers, Pipe-Line

PIPE, NICKEL AND NICKEL ALLOY
International Nickel Co., Inc.

PIPE-REPAIR CLAMPS
See: Clamps, Pipe-Repair

PIPE, STEEL
Allegheny Ludlum Steel Corp.
Carll, Chas. W., Sons
Chandler Machine Co.
Republic Steel Corp.

PIPE WRENCHES
See: Wrenches, Pipe

PLASTIC BUTTONS
See: Buttons

PLASTIC FIREBRICK
See: Firebrick

PLATFORM TRUCKS
See: Trucks, Industrial

PLEATING MACHINES
Chandler Machine Co.
Circle Pleating Pattern Co., Ltd.
Maxant Button & Supply Co.

PNEUMATIC CONVEYORS
See: Conveyors, Pneumatic, Bulk

PNEUMATIC HOISTS
See: Hoists

POCKET FORMS
Leel Bros., Inc.

POCKET REPLACEMENTS
See: Replacements, Pocket, Trouser

POLES, RUG AND CARPET
See: Rug and Carpet Cleaning Equipment

POLISHING MACHINES, FLOOR
See: Floor Cleaning, Scrubbing and Polishing Machines

POLISH, METAL
Carman & Co., Inc.
Continental Car-Na-Var Corp.
DuPont de Nemours, E. I., & Co., Inc.
Huntington Laboratories, Inc.
International Metal Polish Co.
Riverside Chemical Co., Inc.
Roberts-Modaber Co., Inc.

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Steinman Paper Co.

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See: Blowers

PORTABLE SCALES
See: Scales

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See: Bleaching Powder

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See: Break Powder

POWDER, FILTER
See: Filter Powder

POWER HOISTS
See: Hoists

POWER PLANTS AND UNITS, STEAM
See: Boilers and Steam Generators

PREFABRICATED BUILDINGS
See: Buildings, Prefabricated

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Stout, David, & Sons
Whitlock Mfg. Co.

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Dixo Co.
G & G Chemical Co.
Huntington Laboratories, Inc.
Keystone Aniline & Chemical Co.
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Mead, George E., Co.
Merson Products Co.
Murphy Soaps Co.
National Cleaners Chemical Mfg. Co.
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Riverside Mfg. Co.
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Stamford Chemical Co.
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Wilson, A. L., Chemical Co.

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Newhouse Co.

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Keever Starch Co.
Stadham Co., Inc.
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PRESS CLOTH
See: Cloth, Press

PRESS CLOTH, WOOL
See: Cloth, Press

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(Continued on next page)

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For manufacturers' addresses see MANUFACTURERS' list beginning page 300

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For manufacturers' addresses see MANUFACTURERS' list beginning page 308

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Reliable Steam Pressing Machinery Service, Inc.
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
Unipress Co.

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See: Shock Absorbers, Press

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See: Valves, Pressure and Reducing

PRESSURE CONTROLS

See: Controls and Regulators, Pressure

PRESSURE FILTERS

See: Filters, Pressure

PRESSURE GAUGES

See: Gauges, Pressure

PRESSURE RECORDERS

See: Recorders, Pressure

PRESSURE REGULATORS

See: Controls and Regulators, Pressure

PREVENTATIVES, MILDEW

See: Mildew Preventatives

PREVENTATIVES, RUST

See: Rust Preventatives

PRICE LISTS

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See: String, Printed

PRINTED TAGS

See: Tags, Printed

PRINTED TAPE

See: Tape, Printed

PRINTING SCALES

See: Scales

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See: Fans, Propeller

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Pantex Mfg. Corp.
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U. S. Hoffman Machinery Corp.
White Machine Co.

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Pantex Mfg. Corp.
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New York Pressing Machinery Corp.
Pantex Mfg. Corp.
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.
White Machine Co.

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Menasha Wood Split Pulley Co.
Woods, T. B., Sons Co.

PULLEYS, RUG AND CARPET

See: Rug and Carpet Cleaning Equipment

PUMP CONTROLS

See: Controls and Regulators, Pump

PUMP GOVERNORS

See: Governors, Pump

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Worthington Pump & Machinery Corp.
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Goulds Pumps, Inc.
Ingersoll-Rand Co.
Lubbock Machine Co., Inc.
Marlow Pumps
Peerless Pump Div., Food Machinery Corp.
Proportioneers, Inc.
Refinite Corp.
U. S. Stoneware Co.
Viking Pump Co.
Wallace & Tiernan Products, Inc.
Worthington Pump & Machinery Corp.
Yeomans Bros. Co.

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Butler Mfg. Co.
Carver Pump Co.
Chicago Pump Co.
Dean Hill Pump Co.
De Laval Steam Turbine Co.
Deming Co.
Gardner-Denver Co.

(Continued on next page)

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

Pumps, Circulating (*Continued*)

Goulds Pumps, Inc.
Ingersoll-Rand Co.
Marlow Pumps
Marsh, Jas. P. Corp.
National Steam Pump Co.
Peerless Pump Div., Food Machinery Corp.
Schirmer-Dornbirer Pump Co.
Schutte & Koerting Co.
Sterling, Inc.
Tarc Heaters, Inc.
Trane Co.
Viking Pump Co.
Worthington Pump & Machinery Corp.
Yeomans Bros. Co.

PUMPS, CONDENSATION RETURN

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Cochrane Corp.
Dean Hill Pump Co.
Dezator Pump Co.
De Laval Steam Turbine Co.
Deming Co.
Eclipse Fuel Engineering Co.
Goulds Pumps, Inc.
Hapman-Dutton Co., Dutton Boiler Div.
Ingersoll-Rand Co.
Johnson Corp.
Kisco Boiler & Engineering Co.
Lattner, P. M., Mfg. Co.
Peerless Pump Div., Food Machinery Corp.
Schaub, Fred H., Engineering Co., Inc.
Sterling Engineering & Mfg. Corp., Templeton Mfg. Co.
Sterling, Inc.
Stout, Duval, & Sons
U. S. Hoffman Machinery Corp.
Worthington Pump & Machinery Corp.
Yeomans Bros. Co.

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Chicago Pump Co.
Dean Hill Pump Co.
Defender Instrument & Regulator Co.
Eclipse Fuel Engineering Co.
Goulds Pumps, Inc.
Hapman-Dutton Co., Dutton Boiler Div.
Ingersoll-Rand Co.
Kisco Boiler & Engineering Co.
Lattner, P. M., Co.
Peerless Pump Div., Food Machinery Corp.
Schaub, Fred H., Engineering Co., Inc.
Sterling, Inc.
Stout, Duval, & Sons
Tagliabue Co.
U. S. Hoffman Machinery Corp.
Worthington Pump & Machinery Corp.

PUMPS, OIL

Aircraft Engineering Co.
Blackmer Pump Co.
Chicago Pump Co.
Dean Hill Pump Co.
Defender Instrument & Regulator Co.
De Laval Steam Turbine Co.
Engineer Co.
Goulds Pumps, Inc.
Ingersoll-Rand Co.
Lubbock Machine Co., Inc.
Lunkenheimer Co.
Marlow Pumps
National Acme Burner Co., Inc.
Peerless Pump Div., Food Machinery Corp.
Petroleum Heat & Power Co.
Roots-Connersville Blower Corp.
Schirmer-Dornbirer Pump Co.
Schutte & Koerting Co.
Stewart-Warner Corp., Alemite Corp.
Viking Pump Co.
Worthington Pump & Machinery Corp.

PUMPS, SEWAGE

Chicago Pump Co.
Dean Hill Pump Co.
De Laval Steam Turbine Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Marlow Pumps
Peerless Pump Div., Food Machinery Corp.
Worthington Pump & Machinery Corp.
Yeomans Bros. Co.

PUMPS, SOLVENT

Blackmer Pump Co.
Bowser, Inc.
Butler Mfg. Co.
Chicago Pump Co.
Dean Hill Pump Co.
Gardner-Denver Co.
Goulds Pumps, Inc.
Gross Machinery Co., Inc.
Ingersoll-Rand Co.
Lubbock Machine Co., Inc.
Marlow Pumps
Schirmer-Dornbirer Pump Co.
U. S. Hoffman Machinery Corp.
Viking Pump Co.
Wallace & Tiernan Products, Inc.
Worthington Pump & Machinery Corp.

PUMPS, VACUUM

Bowser, Inc.
Butler Mfg. Co.
Chicago Pump Co.
De Laval Steam Turbine Co.
Gardner-Denver Co.
Gross Machinery Co., Inc.
Ingersoll-Rand Co.
Roots-Connersville Blower Corp.
Schirmer-Dornbirer Pump Co.
Schutte & Koerting Co.
Sterling, Inc.
U. S. Hoffman Machinery Corp.
Viking Pump Co.
Worthington Pump & Machinery Corp.
Yeomans Bros. Co.

PUMPS, VACUUM, STEAM-HEATING

Bowser, Inc.
Chicago Pump Co.
Defender Instrument & Regulator Co.
National Steam Pump Co.
Roots-Connersville Blower Corp.
Schutte & Koerting Co.
Worthington Pump & Machinery Corp.
Yeomans Bros. Co.

PUMPS, WATER-SUPPLY

Carver Pump Co.
Chicago Pump Co.
Dean Hill Pump Co.
Dezator Pump Co.
De Laval Steam Turbine Co.
Deming Co.
Fairbanks Morse & Co.
Gardner-Denver Co.
Goulds Pumps, Inc.
Ingersoll-Rand Co.
Layne & Bowler, Inc.
Lubbock Machine Co., Inc.
National Steam Pump Co.
Peerless Pump Div., Food Machinery Corp.
Sterling, Inc.
Western Pump Co., Ltd.
Worthington Pump & Machinery Corp.
Yeomans Bros. Co.

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Cochrane Corp.
Wright-Austin Co.

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Cambridge Instrument Co., Inc.
Foxboro Co.
General Electric Co.
Moeller Instrument Co., Inc.
Pyrometer Instrument Co., Inc.
Tagliabue, C. J., Div., Portable Products Corp.

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See: Assembly Rack Dividers

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Lewis-Shepard Products, Inc.
Marvel Mfg. Co.
Speare Co.
White Machine Co.

RACKS, GARMENT

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Chrisman, E. L., Co., Inc.
Cissell, W. M., Mfg. Co.
Cleaners Sales & Equipment Corp.
Cooper, H. J., & Co.
Dahlberg Machinery Co.
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Ink-O Products Co.
Market Forge Co.
Marvel Mfg. Co.
Nutting Truck & Caster Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Risdon Mfg. Co.
Smith, R. B., Co.
Speare Co.
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U. S. Hoffman Machinery Corp.
White Machine Co.

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Newhouse Co.
Perfection Products Co. & Identification, Inc.
Time Savers, Inc.
White Machine Co.

RACKS, HAT

See: Hatters' Equipment

RACKS, REVOLVING

Bishop, G. H., Co.
National Marking Machine Co.
Risdon Mfg. Co.
Time Savers, Inc.

RACKS, STORAGE

Berger Mfg. Div., Republic Steel Corp.
Carman & Co., Inc.
Haertel, Walter, Co.
Lewis-Shepard Products, Inc.
Market Forge Co.
Morse Mfg. Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Time Savers, Inc.
White Machine Co.

RADIAL BEARINGS

See: Bearings, Radial

RAM STOKERS

See: Stokers

REBUILT MACHINERY

See: Machinery, Used and Rebuilt

RECEIVING SCALES

See: Scales

RECLAIMERS, HEAT

See: Heat Reclaimers

RECORDERS, BOILER LEVEL

Bailey Meter Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Yarnall-Waring Co.

RECORDERS, COMBUSTION

Bailey Meter Co.
Cambridge Instrument Co., Inc.
Defender Instrument & Regulator Co.
Hagan Corp.
Hays Corp.
Permutit Co.
Republic Flow Meters Co.

RECORDERS, FLOW

Bailey Meter Co.
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Foxboro Co.
Hagan Corp.
Hays Corp.
Infilco, Inc.
Republic Flow Meters Co.
Schutte & Koerting Co.
Yarnall-Waring Co.

RECORDERS, LIQUID LEVEL

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Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Defender Instrument & Regulator Co.
Foxboro Co.
Hays Corp.
Infilco, Inc.
Mason-Neilan Regulator Co.
Schutte & Koerting Co.
Tagliabue, C. J., Div., Portable Products Corp.
Yarnall-Waring Co.

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Defender Instrument & Regulator Co.
Electric Auto-Lite Co.
Foxboro Co.
Hagan Corp.
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Manning, Maxwell & Moore, Inc.
Mason-Neilan Regulator Co.
Moeller Instrument Co., Inc.
Powers Regulator Co.
Tagliabue, C. J., Div., Portable Products Corp.

RECORDERS, SMOKE

Bailey Meter Co.
Bristol Co.
Photoswitch, Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

RECORDERS, TEMPERATURE
Bailey Meter Co.
Bristol Co.
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Defender Instrument & Regulator Co.
Electric Auto-Lite Co.
Foxboro Co.
Haertel, Walter, Co.
Hays Corp.
Manning, Maxwell & Moore, Inc.
Mason-Neilan Regulator Co.
Moeller Instrument Co., Inc.
Powers Regulator Co.
Pyrometer Instrument Co., Inc.
Republic Flow Meters Co.
Taglabue, C. J., Div., Portable Products Corp.
U. S. Gauge Div., American Machine & Metals, Inc.

RECORDERS, TIME
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Foxboro Co.
General Electric Co.
Norman & Co.
Service Recorder Co.
Simplex Time Recorder Co.
Taglabue, C. J., Div., Portable Products Corp.

RECORDERS, TRUCK
Service Recorder Co.

RECORDERS, VACUUM
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Defender Instrument & Regulator Co.
Electric Auto-Lite Co.
Foxboro Co.
Manning, Maxwell & Moore, Inc.
Mason-Neilan Regulator Co.
Moeller Instrument Co., Inc.

RECORDERS, WASHWHEEL
Foxboro Co.
Huebsch Div., American Laundry Machinery Co.
Manning, Maxwell & Moore, Inc.
Moeller Instrument Co., Inc.
Norman & Co.
Taglabue, C. J., Div., Portable Products Corp.

RECORDING GAUGES
See: Gauges, Recording

RECORDING THERMOMETERS
See: Thermometers, Recording

RECORD SYSTEMS
Egry Register Co.
Haertel, Walter, Co.
McBee Co.
National Cash Register Co.
National Marking Machine Co.
Recordsk Corp.
Remington Rand Co.
Standard Register Co.
Todd Co., Inc.

RECOVERY UNITS, SOLVENT
See: Solvent Recovery Units

RED OIL, TURKEY
See: Turkey Red Oil

REDUCERS, SPEED
Boston Gear Works, Inc.
Link-Belt Co.

REDUCING AND REGULATING VALVES
See: Valves, Reducing and Regulating

REELS, HOSE
Wayne Pump Co.

REELS, SORTING
See: Sorting Reels

REFLECTORS
Industrial Products Co.

REFRACTORY CEMENT
See: Cement, Refractory

REFRACTORY MATERIALS
Green, A. P., Fire Brick Co.
Johns-Manville
McLeod & Henry Co., Inc.
Mexico Refractories Co.
Pulmico Jointless Firebrick Co.
Quigley Co., Inc.
Ramtite Co., Div. S. Obermayer Co.

REFRIGERATION, MECHANICAL
Brunner Mfg. Co.
Carrier Corp.
Frigidaire Div., General Motors Corp.
General Electric Co., Air Conditioning Dept.
Haertel, Walter, Co.
Kelvinator Div., Nash-Kelvinator Corp.
Trane Co.

REGISTERS, AUTOGRAPHIC
Autographic Register Co.
Egry Register Co.
Hub Printing Services
Moore Business Forms, Inc.
Ohmer Register Co.
Standard Register Co.

REGISTERS, CASH AND CONTROL
Allen, R. C., Business Machines, Inc.
Egry Register Co.
Moore Business Forms, Inc.
National Cash Register Co.
Ohmer Register Co.
Standard Register Co.

REGULATORS
See: Controls and Regulators (under specific headings)

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Cutler-Hammer, Inc.
General Electric Co.
Sterling, Inc.
Tork Clock Co., Inc.
Weston Electric Instrument Corp.

RELAYS, MERCURY
General Electric Co.

RELIEF VALVES
See: Valves, Relief

REMOVERS, PAINT
See: Paint Removers

REMOVERS, RUST
See: Rust Removers

REMOVERS, STAIN
See: Stain Removers

REPAIR MATERIALS, FLOOR
See: Floor Sealing and Repair Materials

REPELLENTS, MOTH
See: Mothproofing Agents

REPELLENTS, WATER
See: Water Repellents

REPLACEMENTS, COLLAR, CUFF AND NECKBAND
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Hygrade Button & Supply Co.
Smith, Gilman B., Co., Inc.
Zuckerberg Co.

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Dublife Collar Co.
Patek & Co.
Smith, Gilman B., Co., Inc.

REPLACEMENTS, SHEETS, PILLOWCASES, ETC.
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Reed-Stabin, Inc.

RESEATERS, VALVE
See: Valve Reseaters

RESURFACING MATERIALS, FLOOR
See: Floor Resurfacing Materials

RESURFACING MATERIALS, ROOF
See: Roof Resurfacing Materials

RETURN SYSTEMS, BOILER
See: Boiler Return Systems

RETURN SYSTEMS, EXTRACTED SOLVENT
Pellerin Milnor Corp.

RETURN SYSTEMS, STEAM CONDENSATE
Acker, W. M., Organization, Inc.
Chicago Pump Co.
Cissell, W. M., Mfg. Co., Inc.
Cochrane Corp.
Cyclotherm Corp.
Glover, Bill, Inc.
Hapman-Dutton Co., Dutton Boiler Div.
Johnson Corp.
Kisco Boiler & Engineering Co.
Morehead Mfg. Co.
Schaub, Fred H., Engineering Co., Inc.
Sterling Engineering & Mfg. Corp., Templeton Mfg. Co.
U. S. Hoffman Machinery Corp.

RETURN TRAPS
See: Traps, Return

REVOLVING RACKS
See: Racks, Revolving

REVOLVING JOINTS
See: Joints, Revolving and Swing

REVOLVING SHIRT HANGERS
See: Hangers, Revolving Shirt

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Adams Weaving Co.
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Mohl, Hedda
National Repair Service
Stadler Textile Weavers, Inc.
Thrifty Weavers
Weave-Rac
Weave Masters, Inc.
Wizard Weavers, Inc.
Wonder Weavers

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

REWEAVING EQUIPMENT

Amber Reweaving Service
Columbia Needlework Supply Co., Gearhart Runner Knitter Co.
Fabrasu Co.
StamPatch Magic Mender
Weave-Rite

RIBBON, CELLOPHANE

See: Cellophane Products

RIBBONS, FEED

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Benwall Mfg. Co., Inc.
Carman & Co., Inc.
Curry, J. W. Co.
Egan Cotton Mills
Gilmer, L. H., Co., Div. of U. S. Rubber
Hettrick Mfg. Co.
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Patek & Co.
Pittsburgh Waterproof Co.
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Victor Balata & Textile Belting Co.
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Resolite Div. (Atlas Powder Co.)
Stadham Co., Inc.
Tingue, Brown & Co.
Troy Laundry Machinery Div., American Machine and Metals, Inc.
U. S. Rubber Co.

ROLLER BEARINGS

See: Bearings, Roller

ROLLER BEARINGS, JOURNAL

See: Bearings, Journal Roller

ROLLS, RUBBER-COVERED

Goodrich, B. F., Co.
Hatcheson-Manhattan, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Rubber Co.

ROOFING, CHANNEL, METAL

Berger Mfg. Div., Republic Steel Corp.
Cash, Chas. W., Sons
Revere Copper & Brass, Inc.

ROOFING MATERIALS

Barrett Div., Allied Chemical & Dye Corp.
Cures, Philip, Mfg. Co.
Cash, Chas. W., Sons
Chase Brass & Copper Co.
Horn, A. C., Co., Inc.
Johns-Manville
Midland Paint & Varnish Co.
Revere Copper & Brass, Inc.
Robbins City Mfg. Co.
Ruberoid Co.
Sonneborn, L., Sons, Inc.
Steelcote Mfg. Co.

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Berger Mfg. Div., Republic Steel Corp.
Cash, Chas. W., Sons
International Nickel Co., Inc.
Revere Copper & Brass, Inc.

ROOF RESURFACING MATERIALS

Barrett Div., Allied Chemical & Dye Corp.
Cures, Philip, Mfg. Co.
Horn, A. C., Co., Inc.
Johns-Manville
Midland Paint & Varnish Co.
Phoenix Oil Co.
Ruberoid Co.
Sonneborn, L., Sons, Inc.
Steelcote Mfg. Co.
Tropical Paint & Oil Co.

ROOF VENTILATORS

See: Ventilators

ROOMS, DRY-

See: Dryrooms

ROOMS, MARKING

See: Marking Rooms

ROTARY BEATERS

See: Beaters, Carpet and Rug

ROTARY BRUSHES, FUR CLEANING

American Pressboard Co.
Atlanta Brush Co.
Haertel, Walter, Co.
Pennington, C. W., Co.

ROTARY BRUSHES, RUG CLEANING

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Certified Chemical & Equipment Co.
Cleveland Rug Cleaning Machinery Co.
Hild Floor Machine Co.
Lincoln-Schlueter Floor Machinery Co., Inc.
Multi-Clean Products, Inc.
Pennington, C. W., Co.
Superior Rug Machinery Co.
United Vacuum Appliance Corp.

ROTARY BRUSH REFILLS

Pennington, C. W., Co.

ROTARY CONVERTERS

See: Converters, Rotary

ROTARY PUMPS

See: Pumps (under specific headings)

RUBBER BELTING

See: Belting, Rubber

RUBBER BOOTS

See: Boots, Rubber

RUBBER CEMENT

See: Cement, Rubber

RUBBER GOODS, MOLDED

Garlock Packing Co.
Gates Rubber Co.
U. S. Rubber Co.
Walsh Packing Co.

RUBBER HOSE

See: Hose, Rubber

RUBBER MARKERS

See: Markers, Rubber

RUBBER NETS

See: Nets, Laundry

RUBBER PADDING

See: Pads and Padding, Press and Ironer

RUBBER PAILS

See: Buckets and Pails, Acid-Resisting

RUBBER STAMPS

See: Stamps, Rubber

RUBBER-TIRED WHEELS

See: Wheels and Casters, Trucks, etc.

RUFFLE IRONERS

See: Ironers, Ruffle

RUG AND CARPET BINDING

See: Binding, Rug and Carpet

RUG AND CARPET CLEANING EQUIPMENT

Advance Machine Co.
American Laundry Machinery Co.
Bertsch & Co., Inc.
Certified Chemical & Equipment Co.
Chief Mfg. Co.
Cleveland Rug Cleaning Machinery Co.
Continental Car-Na-Var Corp.
Hild Floor Machine Co.
Holt Mfg. Co.
Huntington Laboratories, Inc.
Lincoln-Schlueter Floor Machinery Co., Inc.
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Miller, A. O. Co.
Moores Time Saving Equipment Co.
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RUG AND CARPET DUSTERS

See: Dusters, Rug and Carpet

RUG AND CARPET SCRUBBING MACHINES

See: Scrubbing Machines, Rug and Carpet

RUG AND CARPET SIZING EQUIPMENT

See: Rug and Carpet Cleaning Equipment

RUG AND CARPET SIZINGS

See: Sizings, Rug

RUG AND CARPET SOAPS

See: Soaps, Rug and Carpet

RUG AND CARPET STRETCHERS

See: Stretchers, Rug and Carpet

RUG AND CARPET WRINGERS

See: Wringers, Rug and Carpet

RUG BEATERS

See: Beaters, Carpet and Rug

RUG CLEANING AND FINISHING COMPOUNDS

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Armour & Co., Industrial Soap Div.
Bigelow-Sanford Carpet Co.
Bisco Co.
Caled Products Co., Inc.
Calgon, Inc.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Carman & Co., Inc.
Certified Chemical & Equipment Co.
Clinton Foods, Inc.
Colgate-Palmolive-Peet Co.
Continental Car-Na-Var Corp.
Crossland Mfg. Co., Inc.
Davies-Young Soap Co.
Diamond Alkali Co.
Drew, E. F., & Co., Inc.
Endriss Chemicals
Essential Chemicals Co.
Fumol Corp.
Gliss'n Products Co., Inc.
Hild Floor Machine Co.
Holt Mfg. Co.
Huntington Laboratories, Inc.
Jay-Dee, Inc., Mfg. Chemists
Jerelandon, Inc.
Lewis National Corp.
Merson Products Co.
Multi-Clean Products, Inc.
Oakite Products Co.
Patek & Co.
Philadelphia Quartz Co.
Phoenix Oil Co.
Procter & Gamble Distributing Co.
Riverside Mfg. Co.
Roberts-Modaber Co., Inc.
Slater-Robbins Co., Inc.
Stadham Co., Inc.
Standard Chemical Works Co.
Standard Soap Co. of Camden
Turco Products, Inc.
Wonder Wash Corp.
Wyandotte Chemicals Corp.

RUG DRYING CONVEYORS

See: Conveyors, Rug Drying

RUG DYEING

See: Dyeing, Rug and Carpet

RUG TUMBLERS

See: Tumblers, Rug Cleaning

RUG WASHERS

See: Washers, Rug

RUST PREVENTATIVES

Acme Industrial Compound Corp.
American K. A. T. Corp.
Barrett Div., Allied Chemical & Dye Corp.
Calgon, Inc.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Cook's, Adam, Sons, Inc.
Gulf Oil Corp., Gulf Refining Co.
Houghton, E. F., & Co.
Huntington Laboratories, Inc.
Oakite Products, Inc.
Kennedy Products Co.
Keystone Lubricating Co.
Magnus Chemical Co., Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

National Chemical Sales Co., Laboratory, Inc.
Oakite Products, Inc.
Pennsylvania Salt Mfg. Co.
Philadelphia Quartz Co.
Phoenix Oil Co.
Quigley Co., Inc.
Sonneborn, L., Sons, Inc.
Standard Oil Co.
Stewart-Warner Corp., Alemite Corp.
Subox, Inc.
Superior Products Co.
Turco Products, Inc.
Union Oil Co. of California
Watson-Standard Co.
Wilbur & Williams Co.

RUST REMOVERS

Carman & Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
Dytex Chemical Co.
General Chemical Div., Allied Chemical & Dye Corp.
Greenville Chemical Co.
Hachik Bleach Co.
Hood Chemical Co., Inc., Crescent Div.

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Safe, fast, economical Rust Remover
HOOD CHEMICAL CO., Inc., CRESCENT DIV.,
Philadelphia 48, Pa.

Houghton, E. F., & Co.
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Johnson, W. F., Products Co.
Kem Laboratories
Kelite Products Co.
Keystone Aniline & Chemical Co., Inc.
Keystone Lubricating Co.
Kohnstamm, H., & Co., Inc.
Midland Paint & Varnish Co.
National Cleaners Chemical Mfg. Co.
Oakite Products Co.
Pennsylvania Salt Mfg. Co.
Patek & Co.
Turco Products, Inc.
Wilson, A. L., Chemical Co.

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See: Valves, Safety, or Valves, Relief

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General Pacific Corp.
Goodrich, B. F., Co.
Industrial Products Co.
Mine Safety Appliances Co.
Photoswitch, Inc.
Resistoflex Corp.
U. S. Rubber Co.

SAFETY GUARDS

Industrial Products Co.

SAFETY PINS

See: Pins, Safety

SAFETY SWITCHES

See: Switches, Safety, Electric

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Hub Printing Services
International Tag & Saleslook Co.
Moore Business Forms, Inc.
National Cash Register Co.
Rosenthal Paper Co.
United Autographic Register Co.
Wormstead, Smith & Loomis, Inc.

SALES CONTROL SYSTEMS

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Egry Register Co.
Hub Printing Services
Moore Business Forms, Inc.
National Cash Register Co.
Standard Register Co.
United Autographic Register Co.

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Belnap & Thompson, Inc.
Capital Poster Service
Cappel MacDonald & Co.
Crowdson Co.
Display Features
Edwards, Vincent, Co.
Foster-Stephens, Inc.
Larick Mfg. Co.
Meyercord Co.
Nashua Gummed & Coated Paper Co.
Pargament-Fidler, Inc.

SALES RECORDING REGISTERS

Allen, R. C., Business Machines, Inc.
Egry Register Co.
Moore Business Forms, Inc.
National Cash Register Co.
Standard Register Co.
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SALT

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International Salt Co.
Jefferson Island Salt Co., Inc.
Pennsylvania Salt Mfg. Co.
Riverside Chemical Co.
Worcester Salt Co.

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Industrial Products Co.
International Salt Co.
Mine Safety Appliance Co.
Worcester Salt Co.

SAWDUST, FUR CLEANING

See: Fur Cleaning Supplies

SCALES

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Chatillon, John, & Sons
Detecto Scales, Inc.
Fairbanks Morse & Co.
Howe Scale Co.
Toledo Scale Co.
Triner Scale & Mfg. Co.

SCHOOLS, LAUNDRY AND DRYCLEANING

Amber School of Weaving
American Institute of Laundering
Delray School of Spotting Instruction
Empire Institute of Tailoring
Hubbard Drycleaning & Redyeing School
National Institute of Cleaning & Dyeing
Ohio Mechanics Institute

SCOOPS

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See: Floor Cleaning, Scrubbing and Polishing Machines

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SCRUB TUBS

See: Tubs, Scrub

SEALING MACHINES

Better Packages, Inc.
Dixie Hanger Co.
Ideal Stencil Machine Co.
Nashua Package Sealing Co., Inc.

SEALING MATERIALS, FLOOR

See: Floor Sealing and Repair Materials

SEALS

See: Labels and Seals

SEAM AND COLLAR DAMPENERS

See: Dampeners, Collar and Seam

SEAMLESS TUBING

See: Tubing, Seamless, Flexible Metal, or Tubing, Seamless Steel

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SEPARATORS, OIL AND STEAM

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Dixon Industrial Corp.
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Marshall Heater Co.
Nicholson, W. H., & Co.
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See: Sodium Sesquicarbonate

SESQUISILICATE, SODIUM

See: Sodium Sesquisilicate

SETTINGS, BOILER

See: Boiler Settings

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See: Ejectors, Sewage

SEWAGE PUMPS

See: Pumps, Sewage

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Maxant Button & Supply Co.
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Haertel, Walter, Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Singer Sewing Machine Co.

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Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

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See: Couplings, Shafts

SHAKE-OUT TUMBLERS
See: Tumblers, Shake-out

SHAKERS, FLATWORK
See: Flatwork Shakers

SHAKING GRATES
See: Grates, Shaking and Stationary

SHAPER-DRIER, GARMENT
Chandler Machine Co.
Tri-Pak Machinery Service, Inc.
U. S. Hoffman Machinery Corp.

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Huebsch Div., American Laundry Machinery Co.
Key-Tag Checking System Co.
Reed Mfg. Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

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See: Sleeve Shapers

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Eagle Belting & Leather Co.

SHEAVES, "V" BELTING
Worthington Pump & Machinery Corp.

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See: Replacements, Sheets, Pillowcases, etc.

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See: Cellophane Products

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Berger Mfg. Div., Republic Steel Corp.

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See: Hanger Shields and Guards

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See: Cases, Shipping

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Patek & Co.
Phoenix Products Co.
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Spear Box Co., Inc.
Steinman Paper Co.
Time Savers, Inc.
Wescott Products Corp.
West Side Corp.
Whitman Supply Co., Inc.

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See: Bags, Dress-Shirt

SHIRT BANDS
See: Bands, Paper

SHIRT BASKETS
See: Baskets, Shirt

SHIRT BOARDS
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Andrew Paper Box & Bag Corp.
Bond Street Bag & Paper Corp.
Brooks, Alfred J.
Century Paper Products
Cornell Paperboard Products Co.
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SHIRT ENVELOPES, CELLOPHANE
See: Envelopes, Shirt

SHIRT ENVELOPES, GLASSINE
See: Envelopes, Shirt

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See: Envelopes, Shirt

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See: Hangers, Revolving Shirt

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Cluett-Peabody Co.

SHIRT PRESSES
See: Presses, Shirt

SHIRT PROTECTORS
See: Protectors, Shirt

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See: Starching and Extracting Machines

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Wagner Sign Service, Inc.

SIGNS, PLASTIC
Display Features
House of Plastics, Div. Neon Sign Co., Inc.

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SILK BLEACH
See: Bleach

SILK PRESSES
See: Presses, Silk

SILK SOAPS
See: Soaps, Silks and Woolens

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See: Rug and Carpet Cleaning Equipment

SIZING, HAT, FELT AND PANAMA
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Water Soluble SIZE
Give "body" to garments
The Davies-Young Soap Co., Dayton, Ohio

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National Starch Products, Inc.
Nu-Life Mfg. Co.
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Market Forge Co.
Nutting Truck & Caster Co.

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Pantex Mfg. Corp.
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Western Laundry Press Co.

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Paulin Products Co.
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See: Collar Smoother

SOAP AND STARCH WHIPS

Manitowoc Cotton Goods Mfg. Co.

SOAP BUILDERS

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SOAP DISPENSERS

See: Dispensers, Soap

SOAP DISPENSERS, DRY-CLEANING

See: Dispensers, Soap, Drycleaning

SOAPLESS SOAP

See: Synthetic Detergents

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886
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Cowles Chemical Co.
Davies-Young Soap Co.
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(Continued on next page)

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For manufacturers' addresses see MANUFACTURERS' list beginning page 308

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Turco Products, Inc.
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Wrisley, Allen B., Co.

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Swift & Co.
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Magnus Chemical Co., Inc.
Merson Products Co.
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Patek & Co.
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National Cleaners Chemical Mfg. Co.
National Milling & Chemical Co.
North Coast Chemical & Soap Works
Patek & Co.
Phoenix Oil Co.
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Swift & Co.

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Colgate-Palmolive-Peet Co.
Davies-Young Soap Co.
Huntington Laboratories, Inc.
Iowa Soap Co.
Kamen Soap Products Co., Inc.
Procter & Gamble Distributing Co.
Riverside Chemical Co.
Standard Soap Co. of Camden
Steiner Sales Co.
Swift & Co.
Texas Soap Mfg. Corp.
Van Chemical Co.
Wrisley, Allen B., Co.

SOAPS, UPHOLSTERY SHAMPOOING

See: Upholstery Shampooing Soaps

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Adrian Research & Chemical Co., Inc.
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Alrose Chemical Co.
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Aurora Mfg. Co.
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Caled Products Co., Inc.
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Davies-Young Soap Co.
Davis-Weil Mfg. Co.
Dixo Co.
Drew, E. F., & Co., Inc.
Eaton Chemical & Dyestuff Co.
Essential Chemicals Co.
Fanal Corp.
G & G Chemical Co.
Hardin, J. L., Co., Inc.
Huntington Laboratories, Inc.
Kamen Soap Products Co., Inc.
Keystone Aniline & Chemical Co., Inc.
Kohnstamm, H., & Co., Inc.
Laundry Chemicals Co.
Lewis National Corp.
Magnus Chemical Co., Inc.
Merson Products Co.
National Cleaners Chemical Mfg. Co.
North Coast Chemical and Soap Works
Northeastern Soap & Chemical Co.
Package Chemical Co., Inc.
Patek & Co.
Pennsylvania Salt Mfg. Co.
Phoenix Oil Co.
Procter & Gamble Distributing Co.
Raycohem Products Co.
Riverside Mfg. Co.
Slater-Robbins Co. Inc.
Spix Products Co.
Stadham Co., Inc.
Stamford Chemical Co.
Standard Soap Co. of Camden
Starr Soap & Chemical Co.
Street, R. R., & Co., Inc.
Swift & Co.
Takamine Laboratory, Inc.
Thompson-Hayward Chemical Co.
Trico Chemical Div., Tri-State Equipment Co.
Van Chemical Co.
West Side Corp.
Wilson, A. L., Chemical Co.
Wolke, A. F., Co.
Wonder Wash Corp.
Wrisley, Allen B., Co.

SOAP TANKS

See: Tanks, Soap

SOCK DRIERS

See: Driers, Hosiery and Sock

SOCK ENVELOPES

See: Envelopes, Handkerchief, Sock, etc.

SOCK FORMS

See: Hosiery and Sock Forms

SOCK PINS

See: Pins

SOCK TURNER

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Hood Chemical Co.
Mathieson Chemical Corp.
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Riverside Chemical Co.
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Theobald Industries
Westvaco Chemical Div., Food Machinery & Chemical Corp.
Wyandotte Chemicals Corp.

SODA, CAUSTIC

See: Caustic Soda (Sodium Hydroxide)

SODA, MODIFIED

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North Coast Chemical & Soap Works
Riverside Chemical Co.
Solvay Sales Div., Allied Chemical & Dye Corp.
Theobald Industries

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See: Sours

SODIUM BICARBONATE

See: Soda, Modified

SODIUM CARBONATE

See: Soda Ash (Sodium Carbonate)

SODIUM CHLORIDE

See: Salt

SODIUM HYDROXIDE

See: Caustic Soda (Sodium Hydroxide)

SODIUM HYPOCHLORITE

See: Bleach

SODIUM METAPHOSPHATE

Calgon, Inc.
Rumford Chemical Works
Theobald Industries

SODIUM METASILICATE

Diamond Alkali Co.
DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Innis, Speiden & Co.
North Coast Chemical & Soap Works
Philadelphia Quartz Co.
Riverside Chemical Co.
Theobald Industries
Wyandotte Chemicals Corp.

SODIUM ORTHOSILICATE

Diamond Alkali Co.
Dow Chemical Co.
General Chemical Div., Allied Chemical & Dye Corp.
Innis, Speiden & Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

North Coast Chemical & Soap Works
Pennsylvania Salt Mfg. Co.
Riverside Chemical Co.
Theobald Industries
Wyandotte Chemicals Corp.

SODIUM PERBORATE

See: Bleach

SODIUM SESQUICARBONATE

Columbia-Southern Chemical Corp.
Diamond Alkali Co.
Solvay Sales, Div. Allied Chemical & Dye Corp.

SODIUM SESQUISILICATE

Diamond Alkali Co.
Innis, Speiden & Co.
North Coast Chemical & Soap Works
Philadelphia Quartz Co.
Riverside Chemical Co.
Theobald Industries

SODIUM SILICATE

Diamond Alkali Co.
DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Mallinckrodt Chemical Works
North Coast Chemical & Soap Works
Philadelphia Quartz Co.
Riverside Chemical Co.
Theobald Industries

SODIUM SILICO FLUORIDE

See: Sours

SODIUM TETRAPHOSPHATE

North Coast Chemical & Soap Works
Riverside Chemical Co.
Rumford Chemical Works
Stedford Chemical Co.
Theobald Industries

SOFTENERS, WATER

See: Water Softeners

SOLUBLE PINE OIL

See: Pine Oil, Soluble

SOLVENT, BOILER SCALE

See: Boiler Scale Solvent

SOLVENT, CHLORINATED (SYNTHETIC)

Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Columbia-Southern Chemical Corp.
Detrex Corp.
Diamond Alkali Co.
Dow Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
Hooker Electro-Chemicals, Inc.
Stauffer Chemical Co.
Westvaco Chemical Div., Food Machinery & Chemical Corp.

SOLVENT CLARIFIERS

See: Filters, Stills, Filter Powder, and Sweetening and Purifying Agents, Solvent

SOLVENT, DEGREASING

See: Degreasing Solvent

SOLVENT FILTERS

See: Filters, Solvent

SOLVENT, FUR CLEANING

See: Fur Cleaning Solvent

SOLVENT, LIME SOAP

Acme Soap Co.
Alrose Chemical Co.
Calgon, Inc.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Cowles Chemical Co.
Kohnstamm, H., & Co., Inc.
Rumford Chemical Works
Standard Soap Co. of Camden
Theobald Industries
Van Chemical Co.

SOLVENT, PETROLEUM AND STODDARD

American Mineral Spirits Co.
Anderson-Prichard Oil Corp.
Big Ben Petroleum Products Co.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Deep Rock Oil Corp.
Gulf Oil Corp., Gulf Refining Co.
Shell Oil Co., Inc.
Skelly Oil Co.
Socony-Vacuum Oil Co., Inc.
Standard Oil Co.
Union Oil Co. of California

SOLVENT PUMPS

See: Pumps, Solvent

SOLVENT RECOVERY UNITS

Bowser, Inc.
Columbia Appliance Corp.
Davis Engineering Corp.
Detrex Corp.
Gross Machinery Co., Inc.
Hopkins Equipment Co.
Hoyt Mfg. Corp.
Perry, E. J., & Co.
Prosperity Co., Inc.
Sec-O-Matic Corp.
Shields Engineering & Mfg. Co.
U. S. Hoffman Machinery Corp.
Vic Cleaning Machine Co.
Whitlock Mfg. Co.

SOLVENT RETURN SYSTEMS

See: Return Systems, Extracted Solvent

SOLVENT, SAFETY PETROLEUM

American Mineral Spirits Co.
Anderson-Prichard Oil Corp.
Big Ben Petroleum Products Co.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Deep Rock Oil Corp.
Gulf Oil Corp., Gulf Refining Co.
Socony-Vacuum Oil Co., Inc.
Union Oil Co. of California

SOLVENT STILL REGULATORS

See: Controls and Regulators, Solvent Still

SOLVENT SWEETENERS

See: Sweetening and Purifying Agents, Solvent

SOLVENT, SYNTHETIC

See: Solvent, Chlorinated (Synthetic)

SORTING BARS

Keyes-Davis Co.
National Marking Machine Co.

SORTING BINS

Bishop, G. H., Co.
National Marking Machine Co.
Time Savers, Inc.

SORTING HOOKS

See: Assembly Hooks

SORTING REELS

Bishop, G. H., Co.
Franklin Mfg. Co.
National Marking Machine Co.
Purkett, E., Mfg. Co.
Rodin Machinery Co., Div. Rodin Bros.
Rosenthal Mfg. Co.

SORTING TABLES

Handy Bag Holder & Sprender Co.
Norman & Co.
Perfection Products Co.
Rosenthal Mfg. Co.
U. S. Hoffman Machinery Corp.

SOURS

Aurora Mfg. Co.
Blenco Co.
Carlton Chemical Co., Inc.
Carman & Co., Inc.
Diamond Alkali Co.
Drew, E. F., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Hachik Bleach Co.
Hood Chemical Co., Inc., Crescent Div.
Johnson Chemical Industries, Inc.
Kem Laboratories
Keystone Aniline & Chemical Co., Inc.
Kleeman Bros., Inc.
Kohnstamm, H., & Co., Inc.
Lewis National Corp.
Merchants Chemical Co., Inc.
Merson Products Co.
Minnesota Chemical Co.
North Coast Chemical & Soap Works
Patek & Co.
Pennsylvania Salt Mfg. Co.
Riverside Chemical Co.
Roberts-Modaber Co., Inc.
Robins, G. S., & Co.
Stadham Co., Inc.
Standard Chemical Works Co.
Superior Products Co.
Trico Chemicals Div., Tri-State Equipment Co.
Turco Products, Inc.
Washine National Sands, Inc.
Wyandotte Chemicals Corp.

SPECIAL ALKALI COMPOUNDS

See: Alkali Compounds, Special

SPECIAL DRYCLEANING DETERGENTS

See: Detergents, Special Drycleaning

SPECIAL WETCLEANING DETERGENTS

See: Detergents, Special Wetcleaning

SPEED INDICATORS

See: Indicators, Speed

SPEED RAIL CONVEYORS

See: Conveyors, Speed Rail

SPEED REDUCERS

See: Reducers, Speed

SPONGES

DuPont de Nemours, E. I., & Co., Inc.

SPOT REMOVERS

Adco, Inc.
Adrian Research & Chemical Co., Inc.
Allen & Vickers, Inc.
Armour & Co., Industrial Soap Div.
Caled Products Co., Inc.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Carman & Co., Inc.
Crescent Chemical Div., Hood Chemical Co., Inc.
Davies-Young Soap Co.

BUCKEYE
Wet Spotter **Pre-Spotter**
Klor-lene **Steam Spotter**
Paint, Oil & Grease Remover
For quick, sure results
The Davies-Young Soap Co., Dayton, Ohio

Dixo Co.
Drew, E. F., & Co., Inc.
Dunsway & Co., H. D.
DuPont de Nemours, E. I., & Co., Inc.
G & G Chemical Co.
Greenville Chemical Co.
Hachik Bleach Co.
Huntington Laboratories, Inc.
Ink-O Products Co.
Johnson Chemical Industries, Inc.
Johnson, W. F., Products Co.
Kennedy Products Co.
Keystone Aniline & Chemical Co., Inc.
Kohnstamm, H., & Co., Inc.
Lewis National Corp.
Mead, George E., Co.
Merson Products Co.
Murphy Sales Co.
National Cleaners Chemical Mfg. Co.
North Coast Chemical & Soap Works
Northeastern Soap & Chemical Co.
Patek & Co.
Pennsylvania Salt Mfg. Co.
Rayochem Products Co.
Riverside Chemical Co.
Riverside Mfg. Co.
Silkeleen Mfg. Co.
Slater-Robbins Co. Inc.
Spix Products Co.
Stadham Co., Inc.
Standard Soap Co. of Camden
Stauffer Chemical Co.
Street, R. R., & Co., Inc.
Superior Products Co.
Takamine Laboratory, Inc.

(Continued on next page)

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

Spot Removers (*Continued*)
Thoro Products Co.
Trio Chemical Works, Inc.
Wallerstein Co.
Wilson, A. L., Chemical Co.
Wolke, A. F., Co.

SPOTTING AGENTS
Adco, Inc.
Adrian Research & Chemical Co., Inc.
Allen & Vickers, Inc.
Armour & Co., Industrial Soap Div.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Carman & Co., Inc.
Davies-Young Soap Co.
Dixo Co.
Drew, E. F., & Co., Inc.
Eaton Chemical & Dyestuff Co.
G & G Chemical Co.
Greenville Chemical Co.
Hardin, J. L., Co., Inc.
Huntington Laboratories, Inc.
Ink-O Products Co.
Keystone Aniline & Chemical Co., Inc.
Kohnstamm, H., & Co., Inc.
Lynch, J. P., Co.
Mead, George E., Co.
Merson Products Co.
Murphy Sales Co.
National Cleaners Chemical Mfg. Co.
North Coast Chemical & Soap Works
Package Chemical Co., Inc.
Patek & Co.
Pennsylvania Salt Mfg. Co.
Rayochem Products Co.
Rhodes, Preston, F.
Riverside Mfg. Co.
Silkleen Mfg. Co.
Slater-Robbins Co., Inc.
Spix Products Co.
Stadham Co., Inc.
Standard Soap Co. of Camden
Stauffer Chemical Co.
Street, R. R., & Co., Inc.

Dependable Spotters
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Sold by leading jobbers everywhere
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PICRIN
PYRATEX
MULSOLITE
#209
STREEPENE

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Takamine Laboratory, Inc.
Thoro Products Co.
Trio Chemical Works, Inc.
Wallerstein Co.
Warco Laboratories
West Sale Corp.
Wilson, A. L., Chemical Co.
Wolke, A. F., Co.

SPOTTING AND WETCLEANING TUBS
See: Tubs, Scrub

SPOTTING BOARDS AND TABLES
Bishop, G. H., Co.
Christman, E. L., Co., Inc.
Cissell, W. M., Mfg. Co., Inc.
Columbia Appliance Corp.
Glover, Bill, Inc.
Martin Equipment Corp.
New York Pressing Machinery Corp.
Slater-Robbins Co., Inc.

SPOTTING BOARDS, STEAM
Cissell, W. M., Mfg. Co., Inc.
Excelsior Machinery Co.
Glover, Bill, Inc.

SPOTTING GUNS
See: Steam Guns

SPRAY DAMPENERS
See: Dampeners, Spray

SPRAY GUNS
American Laundry Machinery Co.
Birk, Mfg. Co.
Bishop, G. H., Co.
Cissell, W. M., Mfg. Co., Inc.
Champion Implement Corp.
Cleaners Specialties Supplies Co.
DeVilbiss Co.
Dryco Corp.
Excelsior Machinery Co.
Glover, Bill, Inc.
Hopkins Equipment Co.
Newhouse Co.
OisenMark Corp.
Paasche Airbrush Co.
Pest Control Equipment Co.
Spray Engineering Co.
Stebbins Mfg. & Supply Co.
Stewart-Warner Corp., Alemite Corp.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
United Vacuum Appliance Corp.
White Machine Co.

SPRAY GUNS, PAINT
See: Paint-Spraying Equipment

SPRAY IRONS
See: Irons, Spray

SPRAY NOZZLES
See: Nozzles, Spray

SPREADERS, FLATWORK
See: Flatwork Spreaders

SPREADER STOKERS
See: Stokers

SPRING PADDING
See: Pads and Padding, Press and Ironer

SPROCKETS, CHAIN DRIVE
See: Chain Drive Sprockets

STACKERS, FLATWORK
See: Flatwork Ironer Stackers

STACKS
Brownell Co.
Hapman-Dutton Co., Dutton Boiler Div.
Keeler, E., Co.
Kirk & Blum Mfg. Co.

STAINLESS STEEL
See: Steel, Stainless

STAINLESS STEEL TUBING
See: Tubing, Stainless Steel

STAIN REMOVERS
Adco, Inc.
Adrian Research & Chemical Co., Inc.
Allen & Vickers, Inc.
Aurora Mfg. Co.
Benda Products, Inc.
Caled Products Co., Inc.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Carman & Co., Inc.
Chloro Chemical Co.
Davies-Young Soap Co.
Dixo Co.
Drew, E. F., & Co., Inc.
Eaton Chemical & Dyestuff Co.
G & G Chemical Co.
General Chemical Div., Allied Chemical & Dye Corp.
Greenville Chemical Co.

SOLVINK TANSOL
GREENZYME
IODASE SIZ-IN
Greenville Chemical Company
See ad page 224

Hachik Bleach Co.
Hood Chemical Co., Inc., Crescent Div.
Huntington Laboratories, Inc.
Johnson Chemical Industries, Inc.
Kem Laboratories
Kennedy Products Co.
Keystone Aniline & Chemical Co., Inc.
Kliegman Bros., Inc.
Kohnstamm, H., & Co., Inc.
Lewis National Corp.
Lynch, J. P., Co.
Mead, George E., Co.
Merson Products Co.
Midland Color & Chemical Co.
Murphy Sales Co.
National Cleaners Chemical Mfg. Co.
Northumberland Soap & Chemical Co.
Nu-Pro Mfg. Co.
Package Chemical Co., Inc.

MOCO Products
For The Drycleaner
Package Chemical Company, Inc.
218 W. First St., Boston 27, Mass.

Patek & Co.
Pennsylvania Salt Mfg. Co.
Rayochem Products Co.
Riverside Mfg. Co.
Silkleen Mfg. Co.
Slater-Robbins Co., Inc.
Spix Products Co.
Stadham Co., Inc.
Stauffer Chemical Co.
Street, R. R., & Co., Inc.
Superior Products Co.
Trio Chemical Works, Inc.
Warco Laboratories
Washine National Sands, Inc.
Wilson, A. L., Chemical Co.

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Stafford, N., Co.

STAPLES, WIRE
Ace Fastener Corp.
Arrow Fastener Co., Inc.
Bostitch, Inc.
Neva-Clog Products, Inc.
Prym, William, Inc.
Speed Products Co., Inc.
Stafford, N., Co.

STAPLING MACHINES
Ace Fastener Corp.
Arrow Fastener Co., Inc.

SAVE MONEY
INSURE GARMENT SAFETY
with the ARROW P-22 Hand Stapler
ARROW FASTENER CO., INC.
One Junius Street Brooklyn 12, N. Y.
See ad on page 190

Bostitch, Inc.
Dixie Hanger Co.
Marvel Marking Machine Co.
Neva-Clog Products, Inc.
Speed Products Co., Inc.
Stafford, N., Co.
Triple "M" Inc.

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Arabol Mfg. Co.
Huron Milling Co.

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Better Shirtwork
WITH
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Kohnstamm, H., & Co., Inc.
National Starch Products, Inc.

STARCH COOKERS
See: Cookers, Starch

STARCH, CORN
Arabol Mfg. Co.
Clinton Foods, Inc.
Hubinger Co.
Huron Milling Co.
Keever Starch Co.
National Starch Products, Inc.
Penick & Ford, Ltd., Inc.
Staley, A. E., Mfg. Co.

STARCH DIPPERS
See: Dippers, Starch

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

STARCH EXTRACTORS
See: Extractors, Starch

STARCHING AND EXTRACTING MACHINES
American Laundry Machinery Co.
Bishop, G. H., Co.
Mammond Laundry-Cleaning Machinery Co.
Loyal Textile Machinery Corp.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

STARCHING MACHINES
Bishop, G. H., Co.
Loyal Textile Machinery Corp.

STARCHING TABLES
Bishop, G. H., Co.

STARCH, LIQUID
National Starch Products, Inc.

STARCH, LUBRICANT
Aurora Mfg. Co.
Concord Chemical Co.
Drew, B. F., & Co., Inc.
Hood Chemical Co., Inc., Crescent Div.
Kohnstamm, H., & Co., Inc.
Lewis National Corp.
Stadham Co., Inc.
Superior Products Co.
Thompson-Hayward Chemical Co.

STARCH MIXERS
American Laundry Machinery Co.
Bishop, G. H., Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

STARCH RECLAIMER
Lewis National Corp.

STARCH TUBS
See: Tubs, Starch

STARCH, WHEAT
Huron Milling Co.
Industrial Grain Products, Ltd.
Keever Starch Co.

STARCH WHIPS
See: Soap and Starch Whips

STATIONARY TUBS, LAUNDRY
See: Tubs, Stationary, Laundry Type

STEAM-AIR FINISHERS, GARMENT
American Cleaners Equipment Co., Div. American Laundry Machinery Co.
Cissell, W. M., Mfg. Co., Inc.
Garment Finishing Equipment Corp.

Paris Finishers

give higher production per operator hour of finished quality work than any other garment finisher.

See our advertisement in this issue (Turn to index of advertisers opposite inside back cover).

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Sales Office: 18 Brattle St., Cambridge, Mass.

Glover, Bill, Inc.
Hopkins Equipment Co.
Pantex Mfg. Corp.
Paris Mfg. Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Tri-Pak Machinery Service, Inc.
U. S. Hoffman Machinery Corp.
Wichita Precision Tool Co., Inc.

STEAM BOARDS
Butler Mfg. Co
Chrisman, E. L., Co., Inc.
Cissell, W. M., Mfg. Co., Inc.
Excelsior Machinery Co.
Glover, Bill, Inc.
New York Pressing Machinery Corp.
Pantex Mfg. Corp.
U. S. Hoffman Machinery Corp.

STEAM CONDENSATION RETURN SYSTEMS
See: Return Systems, Steam Condensation

STEAM CONNECTORS
See: Connectors, Steam

STEAM-ELECTRIC IRONS
See: Irons, Steam-Electric

STEAM ENGINES
See: Engines, Steam

STEAMERS, GARMENT
See: Steam-Air Finishers, Garment

STEAMERS, VELVET
American Laundry Machinery Co.
New York Pressing Machinery Corp.
U. S. Hoffman Machinery Corp.

STEAM EVAPORATORS
See: Evaporators, Steam

STEAM GAUGES
See: Gauges, Steam

STEAM GENERATORS
See: Boilers and Steam Generators

STEAM GUNS
American Laundry Machinery Co.
Cissell, W. M., Mfg. Co., Inc.
Glover, Bill, Inc.
Haertel, Walter, Co.
Newhouse Co.
New York Pressing Machinery Corp.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
U. S. Hoffman Machinery Corp.

STEAM IRONS
See: Irons, Steam

STEAM-JET ASH CONVEYORS
See: Conveyors, Steam-Jet Ash

STEAM JOINTS, FLEXIBLE
See: Joints, Flexible Steam

STEAM METERS
See: Meters, Steam

STEAM POWER PLANTS
See: Boilers and Steam Generators

STEAM POWER UNITS
See: Boilers and Steam Generators

STEAM POWER UNITS, TURBINE
See: Boilers and Steam Generators

STEAM PUFFERS
See: Puffers, Steam

STEAM-RESISTING PAINT
See: Paint

STEAM STERILIZERS, DIAPER
See: Sterilizers, Steam, Diaper

STEAM SYSTEMS
Kisco Boiler & Engineering Co.
Schaub, Fred H., Engineering Co., Inc.
Sterling, Inc.
Stout, David, & Sons
Velocity Steam Production Engineering
Webster, Warren, & Co.

STEAM TABLES
American Laundry Machinery Co.
New York Pressing Machinery Corp.

STEAM TRAP FLOATS (REPLACEMENT)
See: Floats, Steam Trap (Replacement)

STEAM TRAPS
See: Traps, Steam

STEAM-TREATING CHEMICALS
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Elgin Softener Corp.
Kelite Products, Inc.
National Chemical Sales Co., Laboratory, Inc.
Stamford Chemical Co.

STEAM TURBINES
See: Turbines, Steam

STEAM VALVES
See: Valves, Steam

STEEL BOXES
See: Boxes, Metal

STEEL PIPE
See: Pipe, Steel

STEEL, STAINLESS
Allegheny-Ludlum Steel Corp.
Berger Mfg. Div., Republic Steel Corp.
Carll, Chas. W., Sons
Carnegie-Illinois Steel Corp.
Crucible Steel Co. of America

STEEL STOOLS
Angle Steel Stool Co.

STEEL STORAGE BINS
See: Bins, Steel Storage

STEEL STORAGE RACKS
See: Racks, Storage

STEEL TABLES
See: Tables, Steel

STEEL WOOL PADDING
See: Pads and Padding, Press and Ironer

STERILIZERS, STEAM, DIAPER
American Sterilizer Co.

STERILIZING AND DISINFECTING MACHINES
American Sterilizer Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

STERILIZING CABINETS
Chicago Dryer Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works
Sterling, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

STERILIZING MACHINES, PILLOW-FEATHER
American Laundry Machinery Co.
American Sterilizer Co.
Huebsch Div., American Laundry Machinery Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
Universal Sanitizing Equipment, Inc.

BOLD TYPE LISTINGS

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For manufacturers' addresses see MANUFACTURERS' list beginning page 308

STERILIZING WASHERS

See: Washers, Sterilizing

STICKERS

Crewdson Co.
Fenton Label Co.
St. Louis Sticker Co.

STILLS

American Laundry Machinery Co.
Bowser, Inc.
Butler Mfg. Co.
Cleaver-Brooks Co.
Detrex Corp.
Gross Machinery Co., Inc.
Manitowoc Mfg. Div., Manitowoc Shipbuilding Co.
Mercury Cleaning Systems, Inc.
Mitchell, J. B. Co.
Olson Filtration Engineers, Inc.
Pantex Mfg. Corp.
U. S. Hoffman Machinery Corp.

STOCK GEARS

See: Gears, Stock

STOKERS

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American Engineering Co.
Bressler Engineering Service
Brownell Co.
Canton Stoker Corp.
Chicago Automatic Stoker Co.
Clinton Engineering Works, Div. H. D. Conkey & Co.
Detroit Stoker Co.
Erie City Iron Works
Flynn & Emrich Co.
Iron Fireman Mfg. Co.
Johnston & Jennings Co.
Kol Master Corp.
Laclede Stoker Co.
Leffel, James, & Co.
Link-Belt Co.
National Steam Pump Co.
Steel Products Engineering Co.
T. S. Machine Corp.
Will-Burt Co.

STONE PAINT

See: Paint

STORAGE BAGS, MOTHPROOF

See: Bags, Storage Mothproof

STORAGE BATTERIES

See: Batteries, Storage

STORAGE BINS, CAST-IRON

See: Bins, Cast-Iron Storage

STORAGE BINS, STEEL

See: Bins, Steel Storage

STORAGE CABINETS

Angle Steel Stool Co.
Berger Mfg. Div., Republic Steel Corp.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.

STORAGE RACKS, STEEL

See: Racks, Storage

STORAGE SUPPLIES

Haertel, Walter, Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Rubinoff, Inc., M.

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For Retailers and Wholesalers
Complete Storage Systems • TAGS
PRINTING: 24-48 hr. SERVICE
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154-156 W. 27th St., New York 1, N. Y.

Sirotta, Bernard, Co.

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Carman & Co., Inc.
Haertel, Walter, Co.

FUR STORAGE AND CLEANING EQUIPMENT . . AND SUPPLIES
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2840 Fourth Ave. So., Minneapolis 8, Minn.
This has been our specialized business for years.

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YOU CAN RELY ON RELIABLE
RELIABLE FUR STORAGE EQUIP. CO.
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Sirotta, Bernard, Co.

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Display Features
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STRAIGHTENERS, PIN

See: Pin Straighteners

STRAINERS, PIPE-LINE

American District Steam Co.
Anderson, V. D., Co.
Anthony Co.
Armstrong Machine Works
Blackmer Pump Co.
Bowser, Inc.
Bready Engineering Corp.
Cash, A. W., Co.
Clark Mfg. Co.
Crane & Co.
Cuno Engineering Corp.
David Regulator Co.
Drico Industrial Corp.
Elliott Co.
Keckley, O. C., Co.
Leslie Co.
Nicholson, W. H., & Co.
Sterling, Inc.
Strong, Carlisle & Hammond Co.
Wright-Austin Co.
Yarnall-Waring Co.

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American Laundry Machinery Co.
Economy Specialty Co.
Hopkins Equipment Co.

Hopkins
BLANKET STRETCHERS
Largest selling unit on the market. For blankets or curtains. With or without drying cabinets. Write for bulletin.
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National Dryer Mfg. Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.

STRETCHERS, CURTAIN

American Laundry Machinery Corp.
Economy Specialty Co.
Hopkins Equipment Co.
National Dryer Mfg. Co.
Rosenthal Mfg. Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
West Coast Laundry Machinery Co.

STRETCHERS, HAT

See: Hatters' Equipment

STRETCHERS, RUG AND CARPET

Chief Mfg. Co.
United Vacuum Appliance Corp.

STRING-MARKING ELIMINATOR, FLATWORK IRONER

American Associated Cos.
Rosenthal Mfg. Co.

STRING, PRINTED

Milwaukee Printed String Co.
Rosenthal Paper Co.
Spear Box Co., Inc.

STRINGS, COVER CLOTH

See: Cover Cloth Clamps or Strings

STRINGS, FLATWORK IRONER

See: Flatwork Ironer Strings

STRIPPERS

Caled Products Co., Inc.
Carman & Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
Eaton Chemical & Dyestuff Co.
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See: Pins

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SYNTHETIC SOLVENT

See: Solvent, Chlorinated (Synthetic)

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See: Folding Tables

TABLES, FUR CLEANING (VENTED)

See: Fur Cleaning Tables, Vented

TABLES, IRONING

See: Ironing Boards and Tables

TABLES, MARKING

See: Marking Tables

TABLES, PRESSING

See: Pressing Boards, Drycleaning

TABLES, SHIRT-FOLDING

See: Shirt-Folding Boards

TABLES, SORTING

See: Sorting Tables

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See: Starching Tables

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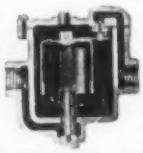

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Marsh, Jas. P., Corp.
Nicholson, W. H., & Co.
Powers Regulator Co.
Sarco Co., Inc.
Sterling, Inc.
Strong, Carlisle & Hammond Co.
Trane Co.
Webster, Warren, & Co.
Wright-Austin Co.

TRAPS, VACUUM

Acker, W. M., Organization, Inc.
Butler Mfg. Co.
Clark Mfg. Co.
Keckley, O. C., Co.
Kelmaker Mfg. Co.
Marsh, Jas. P., Corp.
Mitchell, J. B., Co.
Morehead Mfg. Co.
Sterling, Inc.
Sterling Engineering & Mfg. Corp., Templeton Mfg. Co.
Strong, Carlisle & Hammond Co.
Webster, Warren, & Co.
Wright-Austin Co.

TRAPS, WASHER

Bowser, Inc.
Butler Mfg. Co.

TRAYS, PIN

See: Pin Tray Cabinets

TRICHLORETHYLENE

Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
Detrex Corp.
Dow Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
Westvaco Chemical Div., Food Machinery & Chemical Corp.

TRISODIUM PHOSPHATE

DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Maas, A. R., Chemical Co.
Mallinckrodt Chemical Works
Sergeant, E. M., Pulp & Chemical Co., Inc.
Theobald Industries

TROLLEYS, MONORAIL

American Monorail Co.
Chief Mfg. Co., Inc.
Chisholm-Moore Hoist Corp.
Conco Engineering Works Div., H. D. Conkey & Co.
Link-Belt Co.
Rosenthal Mfg. Co.
Time Savers, Inc.

TROUSER BAGS

See: Bags, Pants or Trouser

TROUSER FORMS

American Laundry Machinery Co.
Glover, Bill, Inc.
Huebsch Div., American Laundry Machinery Co.
Leef Bros., Inc.

TROUSER GUARDS

Andrew Paper Box & Bag Corp.
Carman & Co., Inc.
Century Paper Products
Dixie Hanger Co.
Garment Hanger Co.
Greif Bros. Cooperage Corp.
Hodge, Farwell & Co.

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Heat formed . . . smoothly curved . . . prevent cross-creases. Serrated edges . . . trousers won't slip. Easily attached.
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1934 Sterling Ave., Elkhart, Ind.

Laidlaw, W. A., Wire Co.
Leathers, L. M., Sons

TROUSERS
WILL NOT SLIP ON GRIPPO GUARDS
See Advertisement on page 161

Loroco Industries, Inc.
Marion Mfg. Co.
Para-Lux Products Co.
Patek & Co.
Paulin Products Co.
Rosenthal Paper Co.
Spear Box Co., Inc.
Tillery Container Corp.
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1936 Sterling Ave., Elkhart, Ind.

TROUSER POCKET REPLACEMENTS

See: Replacements, Trouser Pocket

TRUCK BODIES, SPECIAL

Amerling Chevrolet Corp.
Atlas Body Co.
Carll, Chas. W., Sons
Herman Body Co.
Linn Coach & Truck Div., Great American Industries, Inc.
Metropolitan Body Co.
Montpelier Mfg. Co.
Olson, J. B. E., Corp.

OLSON KURB-SIDE
Forward Control All Aluminum-Alloy Delivery Truck Body
Weighs 1000 lbs. Less—Carries a Half Ton More
"Delivers the Goods at Less Cost per-Ton-Mile"!
J. B. E. OLSON CORP.
1740 Broadway, New York

Pacific Car & Foundry Co.
Vanette Div., Universal Sales, Inc.

TRUCK CASTERS

See: Wheels and Casters (Truck, etc.)

TRUCK DOLLIES

See: Dollies

TRUCK PAINT

See: Paint

TRUCK RECORDERS

See: Recorders, Truck

TRUCK TIRES

See: Tires

TRUCK TUBS

See: Tubs, Truck

TRUCKS, INDUSTRIAL

Anderson Box & Basket Co., Inc.
Angle Steel Stool Co.
Bond Foundry & Machine Co.
Buda Co.
Carll, Chas. W., Sons
Chatillon, John, & Sons
Colson Corp.
Daniels, C. R., Inc.

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DRYCLEANERS' TRUCKS
You can't overload a Dandux Truck
Priced low—built to last
C. R. DANIELS, INC.
Daniels, Md.
75 West St., New York 6, N. Y.

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Howe Scale Co.
International Engineering, Inc.
Kentucky Box & Truck Co.
Lane, W. T., & Bros., Inc.
Leebaw Mfg. Co.
Lewis-Shepard Products, Inc.
McElmoyl, W. J., & Co.
Market Forge Co.
Moose, Inc.
Monadnock Wood Split Pulley Co.
Morse Mfg. Co.
Nutting Truck & Caster Co.
Rapids-Standard Co., Inc.
Steele Supply Co., Inc.
Walton Truck Co.
White Machine Co.

TRUCKS, MOTOR

Chevrolet Motor Div., General Motors Corp.
Diveo Corp.
Dodge Div., Chrysler Corp.
Federal Motor Truck Co.
Ford Div., Ford Motor Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

GMC Truck & Coach Div., General Motors Corp.
International Harvester Co.
Linn Coach & Truck Div., Great American Industries, Inc.
Mack Trucks, Inc.
Marmon-Herrington Co., Inc.
Olson, J. B. E., Corp.
Reo Motors, Inc.
Studebaker Corp.
Vanette Div., Universal Sales, Inc.
White Motor Co.

TRUCKS, MOTOR, LEASING
National Truck Leasing System

TRUCKS, SHIRT BASKET
See: Shirt Carriages

TRY-COCKS
Lunkenheimer Co.
Wright-Austin Co.

TUBES, BOILER
See: Boiler Tubes

TUBES, WRAPPING
See: Wrapping Tubes, Flat Goods

TUBING, COPPER
Bridgeport Brass Co.
Chicago Metal Hose Div., Flexonics Corp.
Revere Copper & Brass, Inc.

TUBING, SEAMLESS, FLEXIBLE METAL
American Brass Co., American Metal Hose Branch
Chicago Metal Hose Div., Flexonics Corp.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Johnson Metal Hose, Inc.
Ronaflex Tubing Co., Inc.
Seamlex Co., Inc.
Titeflex, Inc.
Zallea Bros.

TUBING, SEAMLESS, MONEL, NICKEL AND NICKEL ALLOY
Eclipse-Pioneer Div., Bendix Aviation Corp.
Haynes Stellite Co., Unit of Union Carbide & Carbon Corp.
International Nickel Co., Inc.

TUBING, SEAMLESS STEEL
Eclipse-Pioneer Div., Bendix Aviation Corp.
Revere Copper & Brass, Inc.
Timken Roller Bearing Co.

TUBING, STAINLESS STEEL
Allegheny-Ludlum Steel Corp.
Berger Mfg. Div., Republic Steel Corp.
Crucible Steel Co. of America
Eclipse-Pioneer Div., Bendix Aviation Corp.
Timken Roller Bearing Co.
Titeflex, Inc.

TUBS, GALVANIZED
Cummings-Landau Laundry Machinery Co., Inc.
Rochester Can Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.

TUBS, SCRUB
American Laundry Machinery Co.
Bishop, G. H., Co.
Christman, E. L., Co., Inc.
Virginia Greenstone Co., Inc.

TUBS, STATIONARY, LAUNDRY TYPE
American Laundry Machinery Co.
Arrow Tank Co., Inc.
Cummings-Landau Laundry Machinery Co., Inc.
Virginia Greenstone Co., Inc.
White Machine Co.

TUBS, TRUCK
Bishop, G. H., Co.
Cummings-Landau Laundry Machinery Co., Inc.
Industrial Laundry Machinery Co.
Lewis, G. B., Co.
U. S. Hoffman Machinery Corp.

TUBS, WOOD
American Laundry Machinery Co.
Arrow Tank Co., Inc.
Cummings-Landau Laundry Machinery Co., Inc.

TUMBLER NETS
See: Nets, Laundry

TUMBLER PADS
See: Pads, Tumbler

TUMBLER PROTECTORS
See: Protectors, Tumbler

TUMBLERS, DRYCLEANING
American Cleaners Equipment Co., Div. American Laundry Machinery Co.
Ayr-Mor Machinery Co., Inc.
Butler Mfg. Co.
Detrex Corp.
Forse Equipment Corp.
Gross Machinery Co., Inc.

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- Decreases Wool Shrinkage.
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Hammond Laundry-Cleaning Machinery Co.
Hoyt Mfg. Corp.
Huebsch Div., American Laundry Machinery Co.
Industrial Laundry Machinery Co., Inc.
Ironer Div., Speed Queen Corp.
Manitowoc Mfg. Div., Manitowoc Shipbuilding Co.
Marvel Mfg. Co.
Mercury Cleaning Systems, Inc.
Mitchell, J. B., Co.
National Dryer Mfg. Co.
National Machinery Corp.
Pantex Mfg. Corp.
Perry, E. J., & Co.
Poland Laundry Machinery Co.
Sec-O-Matic Corp.
Standard Laundry & Cleaning Machinery Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.

TUMBLERS, LAUNDRY
American Laundry Machinery Co.
Ayr-Mor Machinery Co., Inc.
Butler Mfg. Co.
Chicago Dryer Co.
Druair Process Machinery Co.
Ellis Dryer Co.
Forse Equipment Corp.
Gross Machinery Co., Inc.
Hammond Laundry-Cleaning Machinery Co.
Hoyt Mfg. Corp.
Huebsch Div., American Laundry Machinery Co.
Industrial Laundry Machinery Co., Inc.
Ironer Div., Speed Queen Corp.
Marvel Mfg. Co.
Mercury Cleaning Systems, Inc.
National Dryer Mfg. Co.
Pantex Mfg. Corp.
Perry, E. J., & Co.
Poland Laundry Machinery Co.
Prosperity Co., Inc.
Standard Laundry & Cleaning Machinery Co.
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.

TUMBLERS, FUR CLEANING
See: Fur Cleaning Tumblers

TUMBLER SIGNALS
American Laundry Machinery Co.
Mitchell, J. B., Co.
Norman & Co.
Radiant Drying Co.
Rosenthal Mfg. Co.

TUMBLERS, RUG CLEANING
Chief Mfg. Co.
Cleveland Rug Cleaning Machinery Co.

TUMBLERS, SHAKE-OUT
American Laundry Machinery Co.
Hoyt Mfg. Corp.
Purkett, E., Mfg. Co.
Rosenthal Mfg. Co.
U. S. Hoffman Machinery Corp.

TURBINE GENERATORS
See: Generators, Electric

TURBINE GOVERNORS
See: Governors, Turbine

TURBINE PUMPS
See: Pumps (under specific headings)

TURBINES, STEAM
Dean Hill Pump Co.
DeLaval Steam Turbine Co.
Elliott Co.
General Electric Co.
Worthington Pump & Machinery Corp.

TURKEY RED OIL
Apex Chemical Co., Inc.
Arnold-Hoffman & Co., Inc.
Gulf Oil Corp., Gulf Refining Co.
Riverside Chemical Co.
Standard Soap Co. of Camden
Wolf, Jacques, & Co.

TWINE
American Associated Cos.
Bemis Bro. Bag Co.
Callaway Mills, Inc.
Diem & Wing Paper Co.
Dixie Hanger Co.
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc.
Loroco Industries, Inc.
McGraue Bros.
New York Twine Corp.
Southern Mills, Inc.
Spear Box Co., Inc.
Steinman Paper Co.
Thomaston Mills
Tingue, Brown & Co.

TYING DEVICES
See: Bundle Tyers

UNDERFEED STOKERS
See: Stokers

UNIFORM FABRICS
Conrad Embroidery Co.
Nashua Mfg. Co.

UNIFORMS, COTTON, WOOLEN, WORSTED, etc.
Angelica Uniform Co.
Bostwick-Batterson Co.
Conrad Embroidery Co.
Lion Uniform Co.
Shane Uniform Co., Inc.
United Cotton Goods Co., Inc.

UNIT HEATERS
See: Heaters, Unit

UNLOADING EXTRACTORS
See: Extractors, Mechanical Unloading

UNLOADING WASHERS
See: Washers, Unloading

UPHOLSTERY SHAMPOOING MACHINES
Certified Chemical & Equipment Co.

ROTO-BRUSH
Electric
Upholstery-Machine
Manufacturers of Rug and Upholstery Cleaning Equipment and Supplies. Exclusively.
Certified Chemical & Equipment Co.
1472 E. 25th Street, Cleveland, Ohio

(Continued on next page)

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

Upholstery Shampooing Machines (*Continued*)

Continental Car-Na-Var Corp.
Hild Floor Machine Co.
Miller, A. O., Co.

UPHOLSTERY SHAMPOOING SOAPS

Adco, Inc.
Allen & Vickers, Inc.
Caled Products Co., Inc.
Carman & Co., Inc.
Certified Chemical & Equipment Co.
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Davies-Young Soap Co.
Essential Chemicals Co.
Fomel Corp.
Hild Floor Machine Co.
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Keystone Aniline & Chemical Co., Inc.
Kleenze, Inc.
Mortenson Chemical Laboratories
Multi-Clean Products, Inc.
Procter & Gamble Distributing Co.
Riverside Mfg. Co.
Spix Products Co.
Stadham Co., Inc.
Street, R. R., & Co., Inc.
Texas Soap Mfg. Corp.

USED MACHINERY

See: Machinery, Used and Rebuilt

VACUUM CLEANERS, HAND

American Pressboard Co.
General Electric Co.
Hild Floor Machine Co.
Ideal Industries, Inc.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
United Vacuum Appliance Corp.

VACUUM CLEANERS, INDUSTRIAL

Brady Conveyors Corp.
Breuer Electric Mfg. Co.
Certified Chemical & Equipment Co.
Continental Car-Na-Var Corp.
Hild Floor Machine Co.
Holt Mfg. Co.
Huntington Laboratories, Inc.
Ideal Industries, Inc.
Invincible Vacuum Cleaner Mfg. Co.
Lamson Corp., Blower Div.
Multi-Clean Products, Inc.
Roots-Connersville Blower Corp.
Spencer Turbine Co.
Superior Rug Machinery Co.
U. S. Hoffman Machinery Corp.
United Vacuum Appliance Corp.

VACUUM CLEANERS, RUG AND CARPET

See: Rug and Carpet Cleaning Equipment

VACUUM PUMPS

See: Pumps, Vacuum

VACUUM PUMPS, STEAM-HEATING

See: Pumps, Vacuum, Steam-Heating

VACUUM RECORDERS

See: Recorders, Vacuum

VACUUM REGULATORS

See: Controls and Regulators (Vacuum)

VACUUM STILLS

See: Stills

VACUUM SYSTEMS, PRESSES

Lamson Corp., Blower Div.

Boost Production 25%
Cut steam cost up to 50%
with Billmyre "DRYSET"
see ad page 223
Lamson Corporation, Blower Division
Syracuse, New York

Local Textile Machinery Corp.
Rema Corp.
Spencer Turbine Co.
U. S. Hoffman Machinery Corp.

VACUUM TRAPS

See: Traps, Vacuum

VALVE CONTROLS

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Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co.
Hammel-Dahl Co.
Keckley, O. C., Co.
Lamson Corp., Blower Div.
McDonnell & Miller, Inc.
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Sterling, Inc.
Tagliabue, C. J., Div., Portable Products Corp.
Westinghouse Air Brake Co., Industrial Products Div.

VALVE DISCS

Fairbanks Co.
Ohio Injector Co.
Reading, Pratt & Cady Div., American Chain & Cable Co., Inc.
United Brass Works
U. S. Rubber Co.

VALVE INDICATORS

See: Indicators, Valve

VALVE RESEATERS

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Leavitt Machine Co.

VALVES, ANGLE

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Edward Valves, Inc.
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Kunkle Valve Co.
Lunkenheimer Co.
Manning, Maxwell & Moore, Inc.
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Schutte & Koerting Co.
Sterling, Inc.
United Brass Works
Walworth Co.

VALVES, AUTOMATIC

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Automatic Temperature Control Co.
Bristol Co.
Bird Mfg. Co.
Cash, A. W., Co.
David Regulator Co.
Edward Valves, Inc.
Golden-Anderson Valve Specialty Co.
Hammel-Dahl Co.
Huebsch Div., American Laundry Machinery Co.
Johnson Corp.
Keckley, O. C., Co.
Klipfel Mfg. Co.
McDonnell & Miller, Inc.
Mason-Neilan Regulator Co.
Norman & Co.
Poland Laundry Machinery Co.
Schutte & Koerting Co.
Sterling, Inc.
Worthington Pump & Machinery Corp.

VALVES, BLOW-OFF

Crane Co.
Edward Valves, Inc.
Everlasting Valve Co.
Fairbanks Co.
Lunkenheimer Co.
McDonnell & Miller, Inc.
Manning, Maxwell & Moore, Inc.
Ohio Injector Co.
Yarnall-Waring Co.

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Golden-Anderson Valve Specialty Co.
Lunkenheimer Co.
Keckley, O. C., Co.
Reading, Pratt & Cady Div., American Chain & Cable Co., Inc.
Ruggles, Klingemann Mfg. Co.
Schutte & Koerting Co.
Walworth Co.

VALVES, CHECK

Automatic Temperature Control Co., Inc.
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Clark Mfg. Co.
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Crane Co.
Edward Valves, Inc.
Fairbanks Co.
Kunkle Valve Co.
Lunkenheimer Co.
Manning, Maxwell & Moore, Inc.
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United Brass Works
Walworth Co.
Westinghouse Air Brake Co., Industrial Products Div.
Worthington Pump & Machinery Corp.

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Crane Co.
Fairbanks Co.
Lunkenheimer Co.
Ohio Injector Co.
Westinghouse Air Brake Co., Industrial Products Div.

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Haynes Stellite Co., Unit of Union Carbide & Carbon Corp.
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Schutte & Koerting Co.
U. S. Stoneware Co.
Walworth Co.

VALVES, ENGINE

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Keckley, O. C., Co.

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Defender Instrument & Regulator Co.
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Schutte & Koerting Co.
Spotswood Parker & Co.
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VALVES, GATE

Chase Brass & Copper Co.
Crane Co.
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Everlasting Valve Co.
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Manning, Maxwell & Moore, Inc.
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Walworth Co.
Worthington Pump & Machinery Corp.

VALVES, GLOBE

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Kunkle Valve Co.
Lunkenheimer Co.
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Schutte & Koerting Co.
Sterling, Inc.
United Brass Works
Walworth Co.
Westinghouse Air Brake Co., Industrial Products Div.

VALVES, MAKE-UP WATER

McDonnell & Miller, Inc.

VALVES, MOTOR-OPERATED

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Crane Co.
Cutler-Hammer, Inc.
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Leslie Co.
Lunkenheimer Co.
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Northern Equipment Co.
Ruggles, Klingemann Mfg. Co.
Schutte & Koerting Co.
Tagliabue, C. J., Div., Portable Products Corp.
Walworth Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

VALVES, PRESSURE AND REDUCING

Bailey Meter Co.
Cash, A. W., Co.

CASH STANDARD
PRESSURE REDUCING
VALVES & CONTROLS
W. CASH COMPANY • DECATUR, ILL.

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Klipfel Mfg. Co.
Kunkle Valve Co.
Leslie Co.
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Mason-Neilan Regulator Co.
Northern Equipment Co.
Powers Regulator Co.
Republic Flow Meters Co.
Ruggles, Klingemann Mfg. Co.
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Klipfel Mfg. Co.
Kunkle Valve Co.
Leslie Co.
Mason-Neilan Regulator Co.
Northern Equipment Co.
Powers Regulator Co.
Republic Flow Meters Co.
Ruggles, Klingemann Mfg. Co.
Schutte & Koerting Co.
Squires, C. E., Co.
Strong, Carlisle & Hammond Co.
Taglabue, C. J., Div., Portable Products Corp.
Walsh Packing Co.
Westinghouse Air Brake Co., Industrial Products Div.

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Anthony Co.
Ashton Valve Co.
Cash, A. W., Co.
Cochrane Corp.
Crane Co.
Crosby Steam Gage & Valve Co.
D'Este Div., American Chain & Cable Co., Inc.
Eclipse-Pioneer Div., Bendix Aviation Corp.
Edward Valves, Inc.
Golden-Anderson Valve Specialty Co.
Johnston & Jennings Co.
Klipfel Mfg. Co.
Kunkle Valve Co.
Lunkenheimer Co.
McDonnell & Miller, Inc.
Manning, Maxwell & Moore, Inc.
Ruggles, Klingemann Mfg. Co.

VALVES, SAFETY

Ashton Valve Co.
Crane Co.
Crosby Steam Gage & Valve Co.
Kunkle Valve Co.
Lunkenheimer Co.
Manning, Maxwell & Moore, Inc.
Westinghouse Air Brake Co., Industrial Products Div.

VALVES, STEAM

Cash, A. W., Co.
Central Brass Mfg. Co.
Crane Co.
Dryco Corp.
Edward Valves, Inc.
Fairbanks Co.
Keckley, O. C., Co.
Kunkle Valve Co.
Leslie Co.
Lunkenheimer Co.
Manning, Maxwell & Moore, Inc.
Marsh, Jas. P., Corp.
Otis Injector Co.
Schutte & Koerting Co.
Sterling, Inc.
Trane Co.
United Brass Works
Walworth Co.
Webster, Warren & Co.

VALVES, THERMOSTATIC

Automatic Temperature Control Co., Inc.
Frigidaire Div., General Motors Corp.
Klipfel Mfg. Co.
Leslie Co.
Manning, Maxwell & Moore, Inc.
Marsh, Jas. P., Corp.
Powers Regulator Co.
Ruggles, Klingemann Mfg. Co.
Sterling, Inc.

VALVES, WASHER DUMP

American Laundry Machinery Co.
Columbia Laundry Machinery Co.
Everlasting Valve Co.
Henrici Laundry Machinery Co.
Norman & Co.
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
Zephyr Laundry Machinery Co.

VALVES, WASHWHEEL

American Cleaners Equipment Co., Div. American Laundry Machinery Co.
Huebsch Div., American Laundry Machinery Co.
Walworth Co.

VALVES, WATER PRESSURE

Automatic Temperature Control Co., Inc.
Cash, A. W., Co.
Davis Regulator Co.
D'Este Div., American Chain & Cable Co., Inc.
Golden-Anderson Valve Specialty Co.
Keckley, O. C., Co.
Klipfel Mfg. Co.
Leslie Co.
Marsh, Jas. P., Corp.
McDonnell & Miller, Inc.
Mason-Neilan Regulator Co.
Strong, Carlisle & Hammond Co.

VARIABLE SPEED TRANSMISSIONS

See: Transmissions, Variable Speed

VATS, METAL

Ohio Centrifugals Co.
Patterson-Kelley Co.
Strong, Carlisle & Hammond Co.

VATS, WOOD

Arrow Tank Co., Inc.
Hall, Amos H., & Sons

VAULTS, FUMIGATING

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Eagle Belting & Leather Co.
Gates Rubber Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Sinotta, Bernard, Co.

"V" BELT DRIVES

Gilmer, L. H., Co., Div. U. S. Rubber Co.
Goodrich, B. F., Co.
Link-Belt Co.
Wood's, T. B., Sons

"V" BELTING SHEAVES

See: Sheaves, "V" Belting

"V" DRIVE BELTING

See: Belting, "V" Drive

VELVET PRESS BOARDS

See: Press Boards

VELVET STEAMERS

See: Steamers, Velvet

VENTILATING FANS

See: Fans, Exhaust and Ventilating

VENTILATING SYSTEMS

American Coolair Corp.
Carll, Chas. W., Sons
DeBothezat Fans Div., American Machine & Metals, Inc.
DeVilbiss Co.
Haertel, Walter, Co.
International Engineering Co.
Kirk & Blum Mfg. Co.
Kisco Boiler & Engineering Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.

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Carll, Chas. W., Sons
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Martin Fan & Blower Co.
Moore Co.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Trane Co.
United Electric Motor Co.

VIBRATION ABSORBERS

See: Absorbers, Vibration

VOLATILE DRY SPOTTER

See: Paint Remover, Spot Remover

VOLTAGE REGULATORS

See: Controls and Regulators (under specific headings)

WALLS, FURNACE

See: Furnace Walls

WASHCLOTH REPLACEMENTS

See: Replacements, Sheets, Pillowcases, etc.

WASHER CYCLE CONTROLS AND REGULATORS

See: Timers, Washer

WASHER CYLINDERS, METAL

See: Cylinders, Metal

WASHER CYLINDERS, WOOD

See: Cylinders, Wood

WASHER DUMP VALVES

See: Valves, Washer Dump

WASHER-EXTRACTOR, COMBINATION

American Cleaners Equipment Co., Div. American Laundry Machinery Co.
Chicago Dryer Co.
Fabric Laundry & Drycleaning Machinery Corp.
Mercury Cleaning Systems, Inc.
Unit Wash Co.

WASHER-EXTRACTOR-DRIER, RUG CLEANING

Cleveland Rug Cleaning Machinery Co.

WASHER METERS

See: Meters, Washer

WASHERS, AUTOMATIC, LAUNDRY

American Laundry Machinery Co.
Cummings-Landau Laundry Machinery Co., Inc.
Ellis Dryer Co.
Hammond Laundry-Cleaning Machinery Co.
Henrici Laundry Machinery Co.
Pellerin Milnor Corp.
Prosperity Co., Inc.
Robot Laundry Machinery Sales

(Continued on next page)

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

Washers, Automatic, Laundry (*Continued*)
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.

WASHERS, BLANKET

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Jefferson Wood-Working Co.
Pellerin Milnor Corp.
Poland Laundry Machinery Co.
Prosperity Co., Inc.
Robot Laundry Machinery Sales
Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
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U. S. Hoffman Machinery Corp.

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Butler Mfg. Co.
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Gardner Machinery Corp.
Glover, Bill, Inc.
Gross Machinery Co., Inc.

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Western Laundry Machinery Co.
Zephyr Laundry Machinery Co.

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Butler Mfg. Co.
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Keystone Laundry Machinery Co.
Marvel Mfg. Co.
National Machinery Corp.
Poland Laundry Machinery Co.
Troy Laundry Machinery Div., American Machine & Metals, Inc.
U. S. Hoffman Machinery Corp.
Western Laundry Machinery Co.
Zephyr Laundry Machinery Co.

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American Laundry Machinery Co.
B & G Machinery Co.
Chicago Dryer Co.
Cook Machinery Sales Co.
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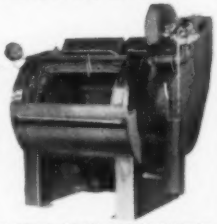
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STAINLESS STEEL WASHERS
25# and 50# dry weight capacity, and Dual models. Semi and fully automatic models.
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West Coast Laundry Machine Co.
Western Laundry Machinery Co.
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WASHER TIME INDICATORS

See: Indicators, Time

WASHING COMPOUNDS

See: Compounds, Washing

WASHROOM DETERGENTS

See: Soaps, Laundry

WASH-SUIT PRESSES

See: Presses, Wash-Suit

WASHWHEEL RECORDERS

See: Recorders, Washwheel

WASHWHEEL THERMOMETERS

See: Thermometers (under specific headings)

WASHWHEEL VALVES

See: Valves, Washwheel

WATCHMAN'S CLOCKS

See: Clocks, Watchman's

WATER ALARMS, HIGH AND LOW

See: Alarms, High and Low Water

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See: Chlorinators, Water

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See: Columns, Water

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Permutit Co.
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Rumford Chemical Works
Solvay Sales Div., Allied Chemical & Dye Corp.
Theobald Industries

WATER CONDITIONERS, MECHANICAL

American Water Softener Co.
Belco Industrial Equipment Div.
Bruner Corp.
Culligan Zeolite Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

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Elgin Softener Corp.
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See: Boiler Feed Systems

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Oshkosh Filter & Softener Co.
Permutit Co.
Proportioneers, Inc.
Refinite Corp.
Zero Water Softener Mfg. Co.

WATER GAUGES

See: Gauges, Water

WATER HEATERS

See: Heaters, Water

WATER LEVEL INDICATORS

See: Indicators, Water Level

WATER METERS

See: Meters, Water

WATER PRESSURE VALVES

See: Valves, Water Pressure

WATERPROOF LEATHER BELTING

See: Belting, Waterproof Leather

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All types of Zeolite
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Oakite Products, Inc.
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Riverside Chemical Co.
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Theobald Industries
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Cochrane Corp.
Davis-Weil Mfg. Co.
Elgin Softener Corp.
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Hammond Laundry-Cleaning Machinery Co.
Hungerford & Terry, Inc.
Kenney Softener & Filter Co.
Kisco Boiler & Engineering Co.
Liquid Conditioning Corp.
Oshkosh Filter & Softener Co.
Permutit Co.
Refinite Corp.
Worthington Pump & Machinery Corp.
Zero Water Softener Mfg. Co.

WATER SOLVENT STILLS

See: Stills

WATER STORAGE HEATERS

See: Heaters, Water Storage

WATER SUPPLY PUMPS

See: Pumps, Water Supply

WATER SYSTEMS, HOT

See: Hot Water Systems

WATER TESTERS

See: Testers, Water

WATER TREATMENT, BOILER

See: Boiler Water Treatment

WATER TREATMENT CONTROL TEST EQUIPMENT

See: Water Analysis Equipment

WATER TREATMENT EQUIPMENT

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Hungerford & Terry, Inc.
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Davies-Young Soap Co.
Davis-Weil Mfg. Co.
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See: Presses, Wearing Apparel

WEAVING
See: Reweaving

WETCLEANING BRUSHES
See: Brushes

WETCLEANING DETERGENTS, SPECIAL
See: Detergents, Special Wetcleaning

WETCLEANING SOAPS
See: Soaps, Wetcleaning

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Washine National Sands, Inc.
Wolf, Jacques, & Co.
Wolke, A. F., Co.
Wyandotte Chemicals Corp.

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See: Bags, Wetwash

WETWASH PAPER
See: Paper, Wetwash

WHEAT STARCH
See: Starch, Wheat

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See: Driers, Windwhip

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General Electric Co.
U. S. Rubber Co.

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See: Baskets, Wire

WIRE HANGERS
See: Hangers, Garment

WIRE STAPLES
See: Staples, Wire

WOOD BASKETS
See: Baskets, Wood

WOOD BOXES
See: Boxes, Wood

WOOD CYLINDERS
See: Cylinders, Wood

WOOD FOLDING BOXES
See: Boxes, Wood

WOOD HAMPERS
See: Hampers

WOOD HAND TRUCKS
See: Trucks, Industrial

WOOD HANGERS
See: Hangers, Garment

WOOD PAINT
See: Paint

WOOD RACKS
See: Racks (under specific headings)

WOOD TABLES
See: Tables, Wood

WOOD TANKS
See: Tanks, Wood

WOOD TRUCKS
See: Trucks, Industrial

WOOD TUBS
See: Tubs, Wood

WOOD VATS
See: Vats, Wood

WOOD WASHERS
See: Washers, Drycleaning, Wood, or Washers, Laundry, Wood

WOOL AND WORSTED UNIFORMS
See: Uniforms, Cotton, Woolen, Worsted, etc.

WOOLEN AND CURTAIN DRIERS
See: Driers, Woolen and Curtain

WOOLEN BLEACH
See: Bleach

WOOLEN SOAPS
See: Soaps, Silks and Woolens

WOVEN BELTING
See: Belting, Woven

WOVEN MARKING LABELS
See: Labels, Woven, Marking

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Loroco Industries, Inc.
Rosenthal Paper Co.
Spear Box Co., Inc.
Wescott Products Corp.

WRAPPERS, SHIRT
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Corp.
Loroco Industries, Inc.
Morse Display Cases
Phoenix Products Co.
Rosenthal Paper Co.
Spear Box Co., Inc.
Steinman Paper Co.
Wescott Products Corp.

WRAPPERS, TABLECLOTH
Spear Box Co., Inc.

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Coffman Mfg. Corp.
Norman & Co.
Rosenthal Mfg. Co.

WRAPPING PAPER
See: Paper, Wrapping

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Walworth Co.

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American Laundry Machinery Co.
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Superior Rug Machinery Co.
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Cochrane Corp.
Culligan Zeolite Co.
Elgin Softener Corp.
Graver Tank & Mfg. Co.
Hungerford & Terry, Inc.
Infilco, Inc.
Kenney Softener & Filter Co.
Liquid Conditioning Corp.
National Chemical Sales Co., Laboratory, Inc.
Permutit Co.
Refinite Corp.
Research Products Corp.
Stover Water Softener Co.
Zero Water Softener Mfg. Co.

ZIPPER REPAIR AND EQUIPMENT SUPPLY
See: Fasteners, Slide, Repair Equipment and Tools

ZIPPERS
See: Fasteners, Slide

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

TRADE NAMES

products used in the drycleaning industry and their manufacturers

A

A-B, marking tags, Boston Clip & Tag Co.
AB, sock tag, Boston Clip & Tag Co.
ACLS, concentrated liquid stripper and reducing agents, Carman & Co., Inc.
A.P.D., albumen protein digester, Wonder Wash Corp.
ATC, controls and regulators, time switches, Automatic Temperature Control Co., Inc.
ABEST, cleaning machine, Abest Equipment Co.
ABSO-SOFT, water softener, Kisco Boiler & Engineering Co.
ACADEMY, digester, West Side Corp.
ACCELATOR, water softeners, Infilco, Inc.
ACE, drycleaning tumblers, solvent reclaimers, Ace Cabinet Corp.
ACE, rubber hose, Ace Hose & Rubber Co.
ACE, stapler, staples, Ace Fastener Corp.
ACE, starch cookers, Hammond Laundry-Cleaning Machinery Co.
ACE OF HEARTS, red indelible ink, Boston Clip & Tag Co.
ACE OF SPADES, black indelible ink, Boston Clip & Tag Co.
ACETEX, sour, Hood Chemical Co., Inc., Crescent Div.
ACETI SOUR, sour for drycleaners, Standard Chemical Works Co.
ACETOON, cover cloth, Magla Products
ACID-SUDS, rug cleaning detergent for light colors, Certified Chemical & Equipment Co.
ACKER, return systems, traps, W. M. Acker Organization, Inc.
ACME, dyeing, Acme Dye House, Inc.
ACME, folding box, Rosenthal Paper Co.
ACME, laundry soap and builders, powder, Acme Soap Co.
ACME BRAND, hat chemical and bleach, Acme Hatters Supply Co.
ACME F.O.T., fuel treatment, Acme Industrial Compounds Corp.
ACME SCALE OUT, boiler feed-water treatment, Acme Industrial Compounds Corp.
ACME SOOT STOP, soot remover, Acme Industrial Compounds Corp.
ACOUSTOLIGHT, acoustical paint, U. S. Gutta Percha Paint Co.
ACTICAR, odor-, taste-removal filter, Hungerford & Terry, Inc.
AC TREATMENT, anti-corrosion water treatment, Elgin Softener Corp.
ADAMS, reweaving, Adams Weaving Co.
ADAPT-O-MATIC, finishing machine, J. W. Steele & Co.
ADCO, detergent, wet paste soap, rug shampoo, Adco, Inc.
ADCO ATOMIZER, soap dispenser, Adco, Inc.
ADCO FUME, liquid gas fumigant, Adco, Inc.
ADCO SUDS, drycleaning soap, Adco, Inc.
ADD-A-UNIT, curtain stretcher, Rosenthal Mfg. Co.
ADD-A-UNIT, shirt-sorting bins, Time Savers, Inc.
ADDRESSOGRAPH, addressing equipment, Addressograph-Multigraph Corp.
A. D. FLAME PROOFER, fire repellent, Huntington Laboratories, Inc.
ADJUSTA-FORM, steam-air finisher, Wichita Precision Tool Co., Inc.
ADJUSTIT, adjustable garment hangers, Hopkins Equipment Co.
ADJUST-O-FEEDER, constant rate proportioning pump, Proportioneers, Inc.
ADRIAN, drycleaning soap, liquid and powder wetcleaning soap, powder rug cleaning soap, spotting and mothproofing agents, Adrian Research & Chemical Co., Inc.
ADSCO, expansion joints, steam traps, water heaters, American District Steam Co.
ADS-LIFE, nylon cover cloth, Whitehouse Products, Inc.
ADVANCE AIRDRY TUMBLER, laundry and drycleaning tumbler, Driair Process Machinery Co.
A. E. PERFECT SPREAD, stokers, American Engineering Co.
AERCO, heat exchanger, hot water heater, Aerco Corp.
AERO, double collar support, J. W. Steele & Co.
AIRCON, continuous conditioning tumbler, American Laundry Machinery Co.
AIRCRAFT, drying tumbler, American Laundry Machinery Co.
AIR DRY TUMBLER, laundry and drycleaning tumbler, Driair Process Machinery Co.
AIRFOAM, latex cushioning for press pads, Goodyear Tire & Rubber Co.
AIRFORM, coat and jacket shapers, U. S. Hoffman Machinery Corp.
AIR-LOK, cuff-drying hanger, R. D. Bussard & Son
AIR MASTER, dehumidifying unit, Walter Haertel Co.
AIROCOOL, industrial gas burners, National Airoil Burner Co., Inc.
AIRTEMP, air-conditioning equipment, Chrysler Corp., Airtemp Div.
AIR-TRED, sponge rubber floor matting, American Mat Corp.
AIRVENT, ventilating canopies for flatwork ironers, American Laundry Machinery Co.
AIRWAY, cuff cleaner, Kirk's Leather Cleaners
AIRWAY, laundry and hair-removal type drier, American Laundry Machinery Co.
AIRXPEL, traps, Wright-Austin Co.
A-JACKS, controls and regulators, combustion stokers, Chicago Automatic Stoker Co.
AJAX, drycleaning laundry presses, Western Laundry Press Co.
AKAUSTAN, fire retardant, General Dyestuff Corp.
AKRO, garment bags, Akro Paper Co.
AKTIV, drain opener, Turco Products, Inc.
AKUSAKA, wax, T. G. Cooper & Co., Inc.
ALBANY, greases, oils, Adam Cook's Sons, Inc.
ALBAPHOR, textile whitener, Carlton Chemical Co., Inc.
AL-BEX, stain remover, Spix Products Co.
ALBONE, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.
ALBRA, brushes, brooms, Braun Brush Co.
ALEMITE, lubricants and oils, lubricating equipment, Stewart-Warner Corp., Alemite Corp.
ALEMITE VERSATAL, spray equipment, Stewart-Warner Corp., Alemite Corp.
ALERT, boilers, Alert Engineering Products
ALERT, fire extinguishers, American-La France-Foamite Corp.
ALERT, watchmen's clocks, Detex Watchclock Corp.
ALFCO, fire extinguishers, American-La France-Foamite Corp.
ALFCOSPRAY, nozzles, American-La France-Foamite Corp.
ALFITE, carbon-dioxide-type fire extinguisher, American-La France-Foamite Corp.
ALFOAM, fire extinguishers, American-La France-Foamite Corp.
ALGONQUIN, soap, Lewis National Corp.
ALIZARINE, aniline dyes, American Aniline Products, Inc.
ALKALATE, laundry detergent, Diamond Alkali Co.
ALKASOL COMBINATION, self-mixed soap detergent, Merson Products Co.
AL-KLOR, liquid drycleaning detergent, Davies-Young Soap Co.
ALKOLUBE, alkali, Washine National Sands, Inc.
ALKOSOL, alkali soap builder, Carlton Chemical Co., Inc.
ALL COLER, bleach, Warco Laboratories
ALL-DAY, laundry marking tag, Boston Clip & Tag Co.
ALLEGHENY METAL, stainless steel, Allegheny Ludlum Steel Corp.
ALLEN, electric steam generators, steam electric and electric irons, H. P. Cooper & Co.
ALLEN WALES, adding machines, National Cash Register Co.
ALLIED, promotional material, Allied Printing & Stationery Co., Inc.
ALLIGATOR, belt fasteners, belt cutters, Flexible Steel Lacing Co.
ALL-IN-ONE, air-conditioning unit, Chrysler Corp., Airtemp Div.
ALL-IN-ONE, drycleaning systems, filters, washers, All-In-One Mfg. & Supply Co.
ALL IN ONE, zipper repair kit, spotting gun, press clamp, sleeve formers, auto rack, Newhouse Co.
ALLOCK, laundry nets and fabrics, Davis Mills Inc.
ALL-PURPOSE, shirt unit, Prosperity Co., Inc.
ALL-PURPOSE, sour, Thompson-Hayward Chemical Co.
ALL-PURPOSE, starch, A. E. Staley Mfg. Co.
ALLSET, unit set forms, Egry Register Co.
ALL-STEEL, scales, Triner Scale & Mfg. Co.
ALLWAY, trouser shaper, Huebsch Div., American Laundry Machinery Co.
ALLWEATHER, fire extinguisher, American-La France-Foamite Corp.
ALL WIRE, garment hangers, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
ALMCON, automatic washing control, American Laundry Machinery Co.
ALRITE, pins, trays and tray cabinets, marking pins, Keyes-Davis Co.
ALROLENE 70, petroleum drycleaning detergent, Alrose Chemical Co.
ALROLENE 65, synthetic drycleaning detergent, Alrose Chemical Co.
ALROPEL, water repellents, Alrose Chemical Co.
ALROSENE 31, synthetic detergent, Alrose Chemical Co.
ALUMEX 50, 60, 70, high alumina firebrick, kiln liners, Mexico Refractories Co.
ALUMIKOTE, aluminum paint, Vita-Var Corp.
ALUMINOX, high-luster aluminum paint, Subox, Inc.
ALUMINUM OILITE, bearings and parts, Chrysler Corp., Amplex Div.
ALVANOL, synthetic wetcleaning soap, Allen & Vickers, Inc.
ALVOR, oil control, Lunkenheimer Co.
AMACEL, acetate dyes, American Aniline Products, Inc.
AMAFORM, dyeing agent, American Aniline Products, Inc.
AMALAN, dyestuffs, American Aniline Products, Inc.
AMALIE, oils and greases, L. Sonneborn Sons, Inc.
AMANTHRENE, aniline dyes, American Aniline Products, Inc.
AMAPRO UNION, aniline dyes, American Aniline Products, Inc.
AMAZON, washing powder, Swift & Co.
AMAZONE, ozone generators, American Ozone Co.
AMBASSADOR, continuous towel cabinet, Ambassador Continuous Cabinet Co.
AMBER, all-metal sleeve board, sleeve form, sleeve press board, press clamp, steam iron stand, iron stand, iron rest, Amber Mfg. Co.
AMBER, reweaving supplies and equipment, Amber Reweaving Service
AMBER FLAKES, neutral tallow soap, Procter & Gamble Distributing Co.
AMCO, ink and inked pads for numbering machines, American Numbering Machine Co.
AMERICAINE, first aid for cuts, burns and bruises, Americaine, Inc.
AMERICAN, continuous towel cabinets, paper towel cabinets, Steiner Sales Co.
AMERICAN, curtain and blanket finishing equipment, American Laundry Machinery Co.
AMERICAN, drying and deodorizing cabinet, American Laundry Machinery Co.
AMERICAN, flatwork feeder and spreader, American Laundry Machinery Co.
AMERICAN, high-speed tumblers, American Laundry Machinery Co.
AMERICAN, industrial instruments, Manning, Maxwell & Moore, Inc.
AMERICAN, laundry and drycleaning solid-curb extractors, American Laundry Machinery Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

AMERICAN, men's dress and sport shirts, pajamas, American Shirt Co.
AMERICAN, paint-removing solvent, Adco, Inc.
AMERICAN, starch cookers, American Laundry Machinery Co.
AMERICAN, water meters, Buffalo Meter Co.
AMERICAN, wearing apparel, linen supply and other special-purpose press units, American Laundry Machinery Co.
AMERICAN AIRCRAFT, tumblers, American Laundry Machinery Co.
AMERICAN AUTOMATIC, drycleaning tumblers, temperature controls, American Laundry Machinery Co.
AMERICAN BEAUTY, electric flatirons, American Electrical Heater Co.
AMERICAN CASCADE, washers, American Laundry Machinery Co.
AMERICAN FORMATIC, shirt unit, American Laundry Machinery Co.
AMERICAN-LA FRANCE, fire extinguishers, American-La France-Foamite Corp.
AMERICAN MODEL "S", super and master ironers, American Laundry Machinery Co.
AMERICAN MONARCH, washers, American Laundry Machinery Co.
AMERICAN MUROZA, feather cleaning and sterilizing system, American Laundry Machinery Co.
AMERICAN O. T., drycleaning extractor, American Laundry Machinery Co.
AMERICAN SUPER SPEED, tumblers, American Laundry Machinery Co.
AMERICAN SYSTEM, shirt conveyor and presses, American Laundry Machinery Co.
AMERICAN TYPE A and TYPE C, semi-automatic washer controls, American Laundry Machinery Co.
AMERICAN VISIBLE, hand numbering machine, American Numbering Machine Co.
AMERICAN ZONE-AIR, feather reconditioning unit, American Laundry Machinery Co.
AMERICAN ZONE-AIR, laundry and drycleaning tumblers, American Laundry Machinery Co.
AMES, boiler engines, etc., Ames Iron Works
AMESTEAM, steam generator, Ames Iron Works
AMICO, washers and extractors, U. S. Hoffman Machinery Corp.
AMINOL, drycleaning detergent, Trico Chemical Div., Tri-State Equipment Co.
AMMOCIDE, laundry sterilizer, mildew preventative, Carlton Chemical Co., Inc.
AMOREDTEX, extractor covers, Patex & Co.
AMSCO, high-flash Stoddard solvent, 140°F solvent, special naphtha, American Mineral Spirits Co.
AMYLIN, laundry starches, National Starch Products, Inc.
ANDERSON, paper collar supports, Howe Paper Corp.
ANDERSON, pipe-line strainers, steam traps, V. D. Anderson Co.
ANDREA, measuring chart, M. Andreas
ANGELICA, washable service apparel, Angelica Uniform Co.
ANHYDRO, spotting agent, A. L. Wilson Chemical Co.
ANOLITE, anhydrous emulsifier, R. R. Street & Co., Inc.
ANSUL, fire extinguishers, Ansul Chemical Co.
ANTHONY, oil burners, pipe-line strainers, valve, Anthony Co.
ANTHONY NEBULYTE, gas, gas-oil, oil burners, torches, Anthony Co.
ANTI-CRUSH, double collar supports, J. W. Steele & Co.
ANTI-ROLL, checks rolling on flatwork ironers, H. Kohnstamm & Co., Inc.
ANTISEPTIC HUNTOLENE, germ controller, Huntington Laboratories
ANTISEPTIN, active fungicide and germicide, Carman & Co., Inc.
APACHE, soap builder, Wyandotte Chemicals Corp.
APCO 140, flash naphtha, Anderson-Prichard Oil Corp.
APPLEGATE, indelible ink (silver base), laundry marking pens, linen marking machine (hand, foot and motor power), Applegate Chemical Co.
APPLICET, powdered aluminum acetate, Arnold-Hoffman & Co., Inc.
AQUADOL, wet spotter and neutral lubricant, Stamford Chemical Co.
AQUASOL, paint, oil, grease spotter, A. F. Wolke Co.
AQUAWAX, self-emulsifying lubricant wax, Concord Chemical Co.
ARABOL, starch, Arabol Mfg. Co.
ARBUTUS, soap, Minnesota Chemical Co.
ARC-HEAT, oil burners (steam atomizing), American Heat Corp.
ARCTIC CRYSTAL, all-tallow soap and granulated flakes, Colgate-Palmolive-Peet Co.
ARCTIC SYNTEX, synthetic detergents, Colgate-Palmolive-Peet Co.
ARIDEX PER, renewable water repellent, E. I. du Pont de Nemours & Co., Inc.
ARISTOCRAT, pillow tickings, R. Lally Co.
ARISTOCRAT, safety pins, William Prym, Inc.
ARK-VAK, leather belting, Philadelphia Belting Co.
ARLAC, alkali, soap builder, Wyandotte Chemicals Corp.
ARM, phosphate and industrial chemicals, A. R. Maas Chemical Co.
ARMA, marking machines, daily delivery tags, loop tags, dispenser tags, day tags, safety pins, Pittsburgh Tag Co.
ARMOUR, soaps and synthetics, Armour & Co., Industrial Soap Div.
ARMOWAX, domestic hard wax, Armour & Co.
ARMSTRONG, humidifiers, strainers, traps, Armstrong Machine Works
ARMS, 1270, nylon, wool press cloth, Arms Textile Mfg. Co.
ARRESTO-MOTH, mothproofing compound, Pennsylvania Salt Mfg. Co.
ARROW, cuff fasteners, Lee Mfg. Co.
ARROW, sponge pads, Arrow Mfg. Co.
ARROW, staplers, staples, staple removers, Arrow Fastener Co., Inc.
ARROW LAUNDRO-PAD, laundry press pad, Arrow Mfg. Co.
ARROW LINE, hat renovating, manufacturing and blocking machinery, American Hatters Supplies, Inc.
ARROW LONG ARM, long-reach stapler, Arrow Fastener Co., Inc.
ASBESTALL, blended nylon and asbestos press cloths, U. S. Rubber Co.
ASBESTEX, asbestos covers, X. S. Smith, Inc.
ASBESTON, chest-type flatwork ironer cover, U. S. Rubber Co., Textile Div.
ASHCROFT, indicating and recording pressure gauges, Manning, Maxwell & Moore, Inc.
ASHVEYOR, pneumatic conveyor system, Brady Conveyors Corp.
ASSEMBLY ARC, fittings to facilitate assembly of garments, Time Savers, Inc.
ASSISTEX, concentrated drycleaning soap, Takamine Laboratory, Inc.
ATLANTIC, non-sour blue, Beach Soap Co.
ATLAS, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.
ATLAS, truck bodies, Atlas Body Co.
ATLAS FIRE RETARDANT, flameproof agent, H. Kohnstamm & Co., Inc.
ATLAS GRAVITY FEEDER RACK, for flatwork ironers, Atlas Steel Products, Inc.
ATLAS MOISTURE CONTROL, for control of moisture retention in laundry extractors, Atlas Steel Products, Inc.
ATLAS RUST SOUR, sour, H. Kohnstamm & Co., Inc.
ATOMIC, drycleaning systems, wet washers, Hammond Laundry-Cleaning Machinery Co.
ATOMOL, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
ATTASOL, colloidal clay, Attapulgus Clay Co.
ATTORIS, fur glaze and cleaning fluid, Bernard Sirotta Co.
AUTOGRAPHIC, registers, business forms, Autographic Register Co.
AUTO-KLEAN, filter, Cuno Engineering Corp.
AUTO-LEVEL, boiler return system, Spotswood Parker & Co.
AUTO-LITE, gauges, indicating and recording thermometers, Electric Auto-Lite Co.
AUTOMATIC, lubricators, Victor Lubricator Sales Co.
AUTOMATIC, spray guns, OlsenMark Corp.
AUTOMATIC PALLET LOADER, automatic stacking of cartons, Lamson Corp., Blower Div.
AUTO-PER, complete drycleaning unit, Vic Cleaning Machine Co.
AUTOSET, a type of free-vane air-operated controller, Bristol Co.
AVACHLOR, drycleaning soap for synthetic solvents, Allen & Vickers, Inc.
AVAGLO 20, drycleaning soap, Allen & Vickers, Inc.
AVEE, dry spotter, wet spotter, rug soap, upholstery cleaner, hat cleaning soap, hat sizing, Allen & Vickers, Inc.
AXIAL-FLOW, exhaust fan, DeBothezat Fans Div., American Machine & Metals, Inc.
AXTEX, first quality, stiff mud firebrick, Mexico Refractories Co.
AYR-MOR, drycleaning and laundry tumblers, drycleaning systems, Ayr-Mor Machinery Co.

B

BB, white grease, low-pressure grease, Keystone Lubricating Co.
B & G, conveyors, all types, B & G Machinery Co.
B.N.B., collar support, clasp, loop, J. W. Steele & Co.
B. N. D., concentrated liquid drycleaning detergent, Benda Products, Inc.
B. & W., boilers, Babcock & Wilcox Co.
B-X, bloodstain remover, John P. Lynch Co.
BABSOLV, spotter and lubricant, Slater-Robbins Co. Inc.
BABSTOD, concentrated drycleaning soap, Slater-Robbins Co. Inc.
BABTEX, lipstick and paint remover, Slater-Robbins Co. Inc.
BAB-ZYME, digester, Slater-Robbins Co. Inc.
BADER, pants stretcher, C. L. Bader Co., Inc.
BADER SOLVENT PURIFIER, process for cleaning solvent, C. L. Bader Co.
BADGER, break powder, Minnesota Chemical Co.
BADGER, liquid soap, Colgate-Palmolive-Peet Co.
BAFFLE-CRETE, for monolithic baffle construction, Mexico Refractories Co.
BAG N' NET, holder, Time Savers, Inc.
BAG-O-MATIC, combined bagger, invoice desk, bag storage rack, G. H. Bishop Co.
BAG-O-TEER, garment bagger, G. H. Bishop Co.
BAHNSON, centrifugal humidifier, Bahnson Co.
BALANCED DRIVE, washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
BALSAM-WOOL, blanket insulation, Wood Conversion Co.
BAND BOX, drycleaning systems, synthetic solvent, Band Box Corp.
BANNER BAND, button, buckle, pinking, fluting, pleating, darning machines, Maxant Button & Supply Co.
BANTAM, autographic registers, Autographic Register Co.
BANTAM, net, Southern Mills, Inc.
BARCO, flexible steam, revolving and swing joints, Barco Mfg. Co.
BARRELED SUNLIGHT, enamels, paints, varnishes, Barreled Sunlight Paint Co.
BAR-RUST, exterior and interior inhibitive paint for steel and pipe, Midland Paint & Varnish Co.
BASKE TRUCK, wire basket truck, G. H. Bishop Co.
BASSICK, casters, wheels, Bassick Co.
BEACHRITE, built soap, Beach Soap Co.
BEATS-ALL, covers, nets, padding, Tingue, Brown & Co.
BEAU-CLEAN, drycleaning soap, Murphy Sales Co.
BEEHIVE, spring padding, Western Laundry Press Co.
BEGO-TURNER, boiler baffles, Plibrico Jointless Firebrick Co.
BELCO, water softeners, Belco Industrial Equipment Div.
BELCOLITE, zeolite, Belco Industrial Equipment Div.
BEL-JO, starch, A. E. Staley Mfg. Co.
BELLMASTER, mechanical pipe joint for cast-iron pipe, Dresser Mfg. Div., Dresser Industries, Inc.
BELMONT, gaskets, packings, Belmont Packing & Rubber Co.
BELT-ZIP, belt hanger, Para-Lux Products Co.
BENDA, liquid drycleaning soap, paint and grease remover, Benda Products, Inc.
BENDA-ZYME, digester, Benda Products, Inc.
BENDIX, seamless flexible metal hose, Eclipse-Pioneer Div., Bendix Aviation Corp.
BENDOVER, cuff fasteners, A. Kimball Co.
BENSAPOL, scouring agent, Jacques Wolf & Co.
BENTEC, synthetic detergent, Wyandotte Chemicals Corp.
BENZOCARDINOLE OXO, detergent, Apex Chemical Co., Inc.
BERGER, metal lockers, shelving, cabinets, bins, Republic Steel Corp.
BERKSOL, drycleaning soap, Stadham Co., Inc.
BERKSTRIP, stripper, Stadham Co., Inc.
BERKSUDS, synthetic detergent, Stadham Co., Inc.
BERLOU, mothproofing agent, Berlou Mfg. Co.
BERSENE, water softener, Bersworth Chemical Co.
BERSONITE, built soaps, Stadham Co., Inc.
BESLER, steam generators, superheaters, Besler Corp.
BEST FORMS, tag identification systems, Best Forms Co.
BESTO, synthetic wetcleaning detergent, Nu-Pro Mfg. Co.
BESTOS, asbestos covers, padding, Tingue, Brown & Co.
BEST YET, cellophane ribbon, cotton twines, New York Twine Corp.
BIFURCATOR, duct fan, DeBothezat Fans Div., American Machine & Metals, Inc.
BIG CHIEF, laundry nets, Southern Mills, Inc.
BIG CHIEF, wood washers, Illinois Laundry Machinery Mfg. Co.
BIG FLO, filters, Butler Mfg. Co.
BIG 4, stripper, Eaton Chemical & Dyestuff Co.
BIG HORN, bentonite clay, Wyotana Mining Co.
BIG HORN WYOMING, colloidal clay, Wyotana Mining Co.
BIG INCH, pressure-sensitive tape dispensers, Better Packages, Inc.
BIGMOUTH, shake-out tumbler, Purkett Mfg. Co.
BILLINGSLY, extractors, filters, washers, Billingsly Machinery Co.
BILLMYRE DRYSET, press, Lamson Corp.
BILVIS-X, detergent and soap builder, Warco Laboratories
BINGO, drainpipe opener, Huntington Laboratories, Inc.
BIONOLS, germicides, General Dyestuff Corp.
BIOPALS, germicidal detergents, General Dyestuff Corp.
BISHOP, laundry, drycleaning production equipment, G. H. Bishop Co.
BISNO, sewing room supplies, Bisno Supply Co.
BISONITE, plastic coating, Washine National Sales, Inc.
BIXBEE 220, fur and leather cleaning aid, Bixbee Research, Div. of Blazemaster, Inc.
BIXLER, conveyors, National Marking Machine Co.
BLACK LINE, knitted padding, Minnesota Chemical Co.
BLACK MAGIC, pipe-sealing compound, gasket cement, Bowser, Inc.
BLACKMER, rotary hand and power pumps, Blackmer Pump Co.
BLACK OUT, ink remover, J. L. Hardin Co., Inc.
BLANCH-STIK, stain remover, Keystone Aniline & Chemical Co., Inc.
BLANCO, all-fabric stripper, Keystone Aniline & Chemical Co., Inc.
BLANKETMASTER, blanket washing machine, Hopkins Equipment Co.
BLAZE-PRUF, flameproofer, Crossland Mfg. Co., Inc.
BLENCO, rug cleaning sour, Blenco Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

BLENDSOL, drycleaning soap, R. R. Street & Co., Inc.
BLOOD-I-CATER, spot remover, W. F. Johnson Products Co.
BLOOD-MUV, stain remover, Package Chemical Co., Inc.
BLOOD-PLUS, spotting aid, Ink-O Products Co.
BLUD-X, concentrated liquid enzyme, Huntington Laboratories, Inc.
BLUE BELL, blue, H. Kohnstamm & Co., Inc.
BLUE BONNET, blue, H. Kohnstamm & Co., Inc.
BLUE-EDGE, aprons, wetwash bags, Lewis National Corp.
BLUE LABEL, tallow soap, Beach Soap Co.
BLUE LINE, collar supports, hangers, shirt bands, necktie hangers, Loroco Industries, Inc.
BLUE RIBBON, laundry nets, Southern Mills Inc.
BLUE RIBBON, polishes, waxes, International Metal Polish Co.
BLUE RIDGE, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
BLUE STAR, feed ribbons, L. H. Gilmer Co., Div. U. S. Rubber Co.
BLUE STREAK, nylon nets, Whitehouse Products, Inc.
BLUE STRIPE, cover cloth, padding, William E. Hopper & Sons
BLUFIXE, sour, H. Kohnstamm & Co., Inc.
BLUFIXE EXTRA-SOLUBLE, sour, H. Kohnstamm & Co., Inc.
BLUREX, sour, Hood Chemical Co., Inc., Crescent Div.
BLU-TINT, laundry sour, Johnson Chemical Industries, Inc.
BLUTONE, liquid blue, E. F. Drew & Co., Inc.
BOCK, drycleaning, laundry extractors, Bock Laundry Machine Co.
BOCONIZE, mothproofing compound, Bocon Chemical Co.
BOGUE, motors, generators, Belco Industrial Equipment Div.
BOILA KLEEN, boiler compound, Patek & Co.
BOILER SOLDER SEAL, metallic powder for boiler repairs, Radiator Specialty Co.
BONASOL, textile dyeing assistants, American Aniline Products, Inc.
BOND, truck casters, Bond Foundry & Machine Co.
BONE-DRI, water repellent, Benda Products, Inc.
BONIS, fur drum, fur sewing machine, Bonis Bros. Fur Machinery Corp.
BON-TEX, asbestos press boots, F. H. Bonn Co.
BOOSTER, shirt unit, Unipress Co., Inc.
BORASUDS, textile scouring, Essential Chemicals Co.
BOROCHLOR, liquid bleach, H. Kohnstamm & Co., Inc.
BOSTAGS, marking tags, Boston Clip & Tag Co.
BOSTITCH, cuff tackers, stapling machine, staples, Bostitch, Inc.
BOW COLLAR SUPPORTS, collar supports for imprinting, Package Masters, Inc.
BOWSER, stills, filters, Bowser, Inc.
BRANFORD, oil burners, Malleable Iron Fittings Co.
BREADY, hot water heater, Bready Engineering Corp.
BREAK-AID, solvent pine oil, Thompson-Hayward Chemical Co.
BREAK-O, break powder, Swift & Co.
BREAK-PHOS, soap regenerator, Thompson-Hayward Chemical Co.
BREAKSYN, break detergent, E. F. Drew & Co., Inc.
BRESSLER, controls, Bressler Engineering Service
BREX, break compound, Procter & Gamble Distributing Co.
BRIDGEPORT, copper water tubing, Bridgeport Brass Co.
BRIGHTGLO, wetcleaning detergent, Merson Products Co.
BRILLIANTONE, sour, G. S. Robins & Co.
BRILLO, press pads, Brillo Mfg. Co., Inc.
BRISTO, multiple spline socket set screws, hollow head cap screws, Bristol Co.
BRISTOL, starch, H. Kohnstamm & Co., Inc.
BRISTOL'S, instruments, Bristol Co.
BRITE, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.
BRITEWHITE, laundry blue, Washine National Sands, Inc.
BRITEX, sours, powdered soap, Van Chemical Co.
BRI-TONE, drycleaning concentrate, Spix Products Co.
BRIZENE, drycleaning soaps, Patek & Co.
BROWNELL, boilers, heat exchangers, stokers, Brownell Co.
BROX, dri-cut cardboards, Alfred J. Brooks
BROXFORMS, shirt boxes, Alfred J. Brooks
BRU-CEX, water conditioning, feeders and chemicals, Bruner Corp.
BRUNNER, air compressors, air conditioners, refrigeration condenser, Brunner Mfg. Co.
BRUSH-AWAY, hand-brushing drycleaning soap, Rayochem Products Co.
BRUSHENE, hand-brushing soap, Keystone Aniline & Chemical Co., Inc.
BRUSH-KLEEN, brushing soap, Adco, Inc.
BRUSH-OUT, drycleaning soap, Caled Products Co., Inc.
BRYAN, boilers, Bryan Steam Corp.
BUCKEYE, drycleanmg washer, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
BUCKEYE, soaps, spotters, stain remover, suede leather dressing, water repellent, paint, oil and grease remover, rug and upholstery shampoo, Davies-Young Soap Co.
BUCKEYE KLOR-LENE, spotter, Davies-Young Soap Co.
BUCKEYE LIQUA-BREAK, break and stain remover, Davies-Young Soap Co.
BUCKEYE WET SPOTTER, all-around wet spotter, Davies-Young Soap Co.
BUCKEYE ZYMATIC, digestive spotter, Davies-Young Soap Co.
BUDA, industrial trucks, Buda Co.
BUFF, alkali compound, special detergents, E. F. Drew & Co., Inc.
BUFFALO, extractor, filter, still, Gross Machinery Co., Inc.
BULLDOG, nylon laundry nets, metal press pads, X. S. Smith, Inc.
BUMINOL, albuminous stains and blood remover, Spix Products Co.
BUNN, bundle-tying machine, B. H. Bunn Co.
BURBAK, cotton padding, Pittsburgh Waterproof Co.
BURKS, boiler feed, condensation return feeds, turbine, centrifugal pumps and water system, Decatur Pump Co.
BUROMIN, boiler water treatment, Hagan Corp.
BURROUGHS, accounting, adding, bookkeeping, calculating, cash-registering machines, business machine supplies, Burroughs Adding Machine Co.
BUSSARD, spooled pants pocketing, collapsible extractor cover, B. D. Bussard & Son
BUTLER, boiler water treatment, mechanical descaler, Butler Engineering Co.
BUTLER, drycleaning plant equipment, Butler Mfg. Co.
BUTLER STILL, solvent distillation unit, Butler Mfg. Co.
BUTONOLE, hub perforating dye tag, Boston Clip & Tag Co.
BUTTON-NO-BUTTON, loop and clasp, J. W. Steele & Co.
BYLAN, cover cloth, Magla Products

C

C. B., detergent, Adco, Inc.
C-50, drycleaning detergents, Nu-Pro Mfg. Co.
C-H, electrical equipment, Cutler-Hammer, Inc.
C-L, washers, extractors, Cummings-Landau Laundry Machinery Co., Inc.
CM, fire retardant, E. I. du Pont de Nemours & Co., Inc.
CMH, expansion joints, expansion bellows, flexible metal conduit, Chicago Metal Hose Corp.
C & S, cleansing powder, Swift & Co.
CABINET-SAN, deodorant, Huntington Laboratories, Inc.
CALDWELL, tank, W. E. Caldwell Co., Inc.
CALECO, drycleaning, laundry, starch extractors, wood laundry washer, wood cylinders, California Laundry Equipment Co.
CALGON, detergents, metaphosphate, rug cleaning and finishing compound, sizings, sodium metaphosphate, solvent, lime soap, water conditioners, chemical water softeners, Calgon, Inc.
CALICO, medium-titer built soap, Procter & Gamble Distributing Co.
CALLANET, knitted nylon nets, Callaway Mills, Inc.
CALSILITE, pipe-covering blocks, Ruberoid Co.
CAL-SOAP, drycleaning soaps, Caled Products Co., Inc.
CAMBRIDGE, electrical and mechanical precision instruments, Cambridge Instrument Co., Inc.
CAMELFORMS, laundry shells, Campbell Box & Tag Co.
CAMELTAGS, laundry tags, Campbell Box & Tag Co.
CAMEO, starch, A. E. Staley Mfg. Co.
CAMERON, pumps, Ingersoll-Rand Co.
CAMPBELL MICRONETIC, water and signal alarms, J. A. Campbell Co.
CANTON, stokers, Canton Stoker Corp.
CAPITAL, marking tags, U. S. Marking Tag Co.
CAPITAL, posters, display frames, inserts, Pargament-Fidler, Inc.
CAPITAL, posters, streamers for window display, Capital Poster Service
CAPITOL, paint and grease remover, Allen & Vickers, Inc.
CARBEX, silicon carbide super-refractory brick, McLeod & Henry Co., Inc.
CARBIDE METHANOL, alcohol, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CARBITOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CARBO-DUR, activated carbon, Permutit Co.
CARBON-TET, synthetic cleaning fluid, E. I. du Pont de Nemours & Co., Inc.
CARBO SOUR, laundry chemical, Diamond Alkali Co.
CARBOXIDE, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CARCO, marking-machine ink, type cleaner, ink thinner, Carman & Co., Inc.
CARCO, press-head cleaner, Carman & Co., Inc.
CARCO, wire hangers, trouser guards, Carman & Co., Inc.
CARCODERM, hand lotion for drycleaners, Carman & Co., Inc.
CARCOFLEX, plasticizing agent for plastic or resin-treated fabrics, Carman & Co., Inc.
CARCOCLENE, general spotter, Carman & Co., Inc.
CARCO SOURS, neutralizing agents, Carman & Co., Inc.
CARCOSUDS, rug shampoo, Carman & Co., Inc.
CARCOVAN, light truck body, Pacific Car & Foundry Co.
CARDOGRAPH, addressograph machine, Addressograph-Multigraph Corp.
CAREYCLAD, roof coating, Philip Carey Mfg. Co.
CAREYCRETE, mastic flooring, Philip Carey Mfg. Co.
CAREYDUCT, asbestos duct, Philip Carey Mfg. Co.
CAREY'S SALT, salt tablets, dispensers, Carey Salt Co.
CAREYSTONE, asbestos-cement roofing, siding, Philip Carey Mfg. Co.
CARLL, metal products, Chas. W. Carll Sons
CARLTONITE, synthetic detergent laundry washing compound, Carlton Chemical Co., Inc
CARMAN, indelible pen ink, Carman & Co., Inc.
CARMANETS, nylon nets, Carman & Co., Inc.
CAR-NA-CRETE, concrete paint, Continental Car-Na-Var Corp.
CAR-NA-KLEEN, floor cleaner, Continental Car-Na-Var Corp.
CAR-NA-LAC, self-polishing heavy-duty floor wax, Continental Car-Na-Var Corp.
CAR-NA-SEAL, phenolic resin seal for wood and porous floors, Continental Car-Na-Var Corp.
CAR-NA-VAR, upholstery and carpet cleaning machine, liquid spirit wax requiring buffing, Continental Car-Na-Var Corp.
CARRIER, air-conditioning, heating, refrigerating systems, Carrier Corp.
CARVEL, nylon covering, press covers, Carman & Co., Inc.
CARVER, centrifugal pumps, Carver Pump Co.
CASCADE, mechanical unloading washer, laundry washers, automatic washing control, American Laundry Machinery Co.
CASCADE, nets, H. Kohnstamm & Co., Inc.
CASH'S, woven names, labels, markers, tape, J. & J. Cash, Inc.
CASH'S NO-SO CEMENT, labels, markers, tape, J. & J. Cash, Inc.
CASH STANDARD, valves, regulators, A. W. Cash Co., Inc
CAST-REFRACT, refractory materials, Quigley Co., Inc.
CATERPILLAR, diesel engine, Caterpillar Tractor Co.
CAU-FLAN, flannel cotton pads, X. S. Smith, Inc.
CAUSUL, gate valve, Lunkenheimer Co.
CEDAR SHIELDS, storage bags, Bassenfoss Bag Co., Inc.
CEGLIN, finish for textiles, Sylvania Industrial Corp.
CELANESE, dyes, American Aniline Products, Inc.
CELA-SOL, paint remover, National Cleaners Chemical Mfg. Co.
CELATINT, tints for acetate yarn, American Aniline Products, Inc.
CELECTRAY, photoelectric pyrometer, C. J. Tagliabue Div., Portable Products Corp.
CELITE, filter aids (diatomaceous silica), Johns-Manville
CELLOSIZE, sizing, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CELLOSOLVE, solvent, Carbine & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CELLOSOPE, drycleaning soaps, J. L. Hardin Co., Inc.
CELOFORM, spotter, Keystone Aniline & Chemical Co., Inc.
CEMENTKOTE, cement, brick paint, Tropical Paint & Oil Co.
CENTURY, motors, generators, Century Electric Co.
CENTURY BRAND, sodium perborate, Eaton Chemical & Dyestuff Co.
CERFAK, detergents, E. F. Houghton & Co.
CERTI-CIDE, demothing liquid, Certified Chemical & Equipment Co.
CERTIFIED, low-titer neutral soap flakes, Armour & Co.
CERTIFIED SOLID, neutral solid pack crutcher soap, Armour & Co.
CERTI-FOAM, upholstery cleaner, Certified Chemical & Equipment Co.
CERTI-LAVE, non-rinse rug shampoo, Certified Chemical & Equipment Co.
CETIC-X, odorless liquid sour, Warco Laboratories
CHACE, automatic washer valves, American Cleaners Equipment Co. Div., American Laundry Machinery Co.
CHALLENGER, stokers, Link-Belt Co.
CHAMBERS, laundry and drycleaning extractors, Chambers Extractor Co.
CHAMPION, automatic tying machine, cable cord, Thomaston Mills
CHAMPION, Monel press pad, Resillo Co.
CHAMPION, water heaters, Crane Co.
CHAMPION CASCADE, laundry washer, American Laundry Machinery Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

CHANDLER, pleating, darning, button-sewing machines, fluters, thread, Chandler Machine Co.
CHASE, brass and copper products, Chase Brass & Copper Co.
CHAT, detergent, General Aniline & Film Corp., Special Products Sales Div.
CHATILLON, scales, trucks, John Chatillon & Sons
CHEK-TAG, drycleaning identification system, Best Forms Co.
CHEM-O-FEEDER, constant rate proportioning pump, Proportioneers, Inc.
CHEVCO, belt cleaner, Samuel Chevlin Co., Inc.
CHEVROLET, motor trucks, Chevrolet Motor Div., General Motors Corp.
CHEX, laundry mildewproofing agent, Cidex Corp.
CHEXIT, unit system for production control, Carman & Co., Inc.
CHIC, sizing for wetcleaning, Patek & Co.
CHICAGO, laundry machinery, Chicago Dryer Co.
CHICAGO, pearl buttons, Chicago Pearl Button Co.
CHICAGO, stokers, Chicago Automatic Stoker Co.
CHICO, alkali soap builder, Wyandotte Chemicals Corp.
CHIEF, rug equipment, Chief Mfg. Co.
CHIEF, truck tires, Mohawk Rubber Co.
CHIEF 20, handkerchief ironer, Huebsch Div., American Laundry Machinery Co.
CHIEF 25, handkerchief, napkin ironer, Huebsch Div., American Laundry Machinery Co.
CHIFFON, miniature bar soap, Armour & Co.
CHINALINE, quick-drying enamel, Barreled Sunlight Paint Co.
CHLORASOL, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CHLORESCO, bleach (calcium hypochlorite), Cowles Chemical Co.
CHLOREX, chlorinated solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CHLOR-O-CEL, sweetener, filter powder, Johns-Manville
CHLOR-O-FEEDER, constant rate proportioning pump, Proportioneers, Inc.
CHLOROSCOPE, drycleaning soap, J. L. Hardin Co., Inc.
CHLOROWAX 40, liquid chlorinated paraffin, Diamond Alkali Co.
CHLOROWAX 70, resinous chlorinated paraffin, Diamond Alkali Co.
CHOCTAW, soap builder, Wyandotte Chemicals Corp.
CHROMIX, refractory material, Quigley Co., Inc.
CHROMOTEX, detergent for rug cleaning in the plant Endries Chemicals, Inc.
CHRYSLER-AIRTEMP, furnaces, boilers, heaters, stokers, Chrysler Corp., Airtemp Div.
CIDEX, mildew preventative, deodorant, mothproofing agent, Cidex Corp.
CIMATAG, printed tags and marking tags, Cincinnati Marking Tag & Supply Mfg. Co.
CIMCO, cement applied to inner surface of tank, Ford Tank Maintenance Co.
CINCH, prespotter, Caled Products Co., Inc.
CINO, carpet, laundry and drycleaning tags, black marking ink, Fleischer Mills, Inc.
CISSELL, cuff brusher, boards, driers, irons, spotting boards and guns, W. M. Cissell Mfg. Co., Inc.
CLAIM-SAVER, F.W.I. bundle separators, F. H. Bonn Co.
CLAIRANESE, cover cloth, Lewis National Corp.
CLARCO, unit heaters, Clarage Fan Co.
CLARK, fluid controls, Clark Mfg. Co.
CLARK 60, traps, valves, Clark Mfg. Co.
CLAYTON, steam generators, feed-water pump, water heater, Clayton Mfg. Co.
CLEANCUT, pinkers, Maxant Button & Supply Co.
CLEAN-O-SHINE, liquid floor cleaner, Continental Car-Na-Var Corp.
CLEANSERTAG, marking tag material, Hollingsworth & Vose Co.
CLEANSER TAGS, tags for cleaners, Sidney A. Cizek
CLEARO, stripper, Carman & Co., Inc.
CLEARSIZE, laundry starch, National Starch Products, Inc.
CLEARTEX, laundry starch, National Starch Products, Inc.
CLEAR-VIEW, boxes, bags and cellophane products, Clear View Packaging Co.
CLEAVER-BROOKS, steam generators, boilers, Cleaver-Brooks Co.
CLEERZOF, wetcleaning soap, Package Chemical Co., Inc.
CLENA-FORM NO. 2, cleaner, polisher and lubricator for shirt units and body presses, College Chemical Co.
CLEVELAND, rug and laundry machinery, Cleveland Rug Cleaning Machinery Co.
CLEVE-O-CEMENT, under-floor covering and resurfacing material, Midland Paint & Varnish Co.
CLIMATE CHANGER, unit air conditioners, Trane Co.
CLIMAX, overall marking tags, Rodon Mfg. Co.
CLINTON, rug sizing, Clinton Foods, Inc.
CLINTON 51, thick boiling starch, Clinton Foods, Inc.
CLIP-A-TAPE, gummed tape dispenser, Ideal Stencil Machine Co.
CLIPPER, belt-lacing equipment, belt cutters and fasteners, Clipper Belt Lacer Co.
CLIX, belt organizer, Time Savers, Inc.
CLOMAK, balanced detergent, Wyandotte Chemicals Corp.
CLOPAY, hanger protectors, dress guards, Clopay Corp.
CLOPAY SANITEX, garment storage bags, Clopay Corp.
CLOR, bleach, Pennsylvania Salt Mfg. Co.
CLORAFIN, chlorinated paraffin, Hercules Powder Co.
CLOROSHEEN, drycleaning detergent, Riverside Mfg. Co.
COAGULATOR, rapid combination mixing chamber and settling basin, Hungerford & Terry, Inc.
COATES, electric boiler, Coates Electric Mfg. Co.
COAT-SEAL, interior wall coating, Steelcote Mfg. Co.
CO-AXIAL-FLO, filter, Zephyr Laundry Machinery Co.
COBECO, leather belting, cement, Cornell Belting Co.
COCALENE, liquid wetcleaning soap, Wonder Wash Corp.
COCHECO, flat leather belting, belt cement, J. B. Williams & Sons
COCHIN SEB, solvent and synthetic wetting agent, E. F. Drew & Co., Inc.
COCHRANE, steam power plant equipment, Cochrane Corp.
COCOANUT OIL, paste soap, National Cleaners Chemical Mfg. Co.
COCOGEL, wetcleaning soap, E. F. Drew & Co., Inc.
COCOZOP, coconut oil, wetcleaning, paste soap, Package Chemical Co., Inc.
COLCOT, press padding flannel, Southern Mills, Inc.
COLDSPRAY, built soap for cool-water washing, Beach Soap Co.
COLDWATER NAPTEX, laundry soap, E. F. Drew & Co., Inc.
COLD WATER OZONITE, cold-water soap, Procter & Gamble Distributing Co.
COLD WATER SOL SUDS, soap, Lewis National Corp.
COLGATE FORMULA 10, 20, 25, 33, 40, neutral soap flakes and granulated built soap, Colgate-Palmolive-Peet Co.
COLGATE KWIKSOLVE, laundry soap, Colgate-Palmolive-Peet Co.
COLLARIGHT, collar ironer, shirt-folding machine, Key-Tag Checking System Co.
COLLA-BITES, collar supports, M. H. Gronauer Co.
COLONIAL, blue, Superior Products Co.
COLOR BRITE, soap, Lewis National Corp.
COLOREX, stripping agent, Stauffer Chemical Co.
COLORFIXE, sour, H. Kohnstamm & Co., Inc.
COLORFLEX, leather dyes, Eaton Chemical & Dyestuff Co.
COLORGO, powdered stripping agent, A. L. Wilson Chemical Co.
COLORSOUT, powder color stripper, Washine National Sands, Inc.
COLOR SPARK, break powders, Wyandotte Chemicals Corp.
COLORSUDS, low-temperature soap, H. Kohnstamm & Co., Inc.
COLORTONE, industrial soap, Allen B. Wrisley Co.
COLORZOUR, sour, Washine National Sands, Inc.
COLOVOLT, fluorescent lamps, fixtures, General Luminescent Corp.
COLSON, wheels, casters, trucks, Colson Corp.
COLTEX, cold-water soap, medium pH, E. F. Drew & Co., Inc.
COLUMBIA, activated carbon, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
COLUMBIA, blindstitch machines, Columbia Sewing Machine Corp.
COLUMBIA, boilers, Columbia Boiler Co.
COLUMBIA, detergents, chemicals, Columbia-Southern Chemical Corp.
COLUMBIA, drycleaning extractors, used and rebuilt machinery, puff irons, valves, Columbia Laundry Machinery Co.
COLUMBIA, drycleaning unit, solvent saver, Columbia Appliance Corp.
COLUMBIA, rewEaving, inweaving needles, Columbia Needle-work Supply Co., Gearhart Runner Knitter Co.
COLUMBIA BF, puff iron, Columbia Laundry Machinery Co.
COLUMBIA GEM, extractor, Columbia Laundry Machinery Co.
COMBINATION OFFSET, silk finishing press, Excelsior Machinery Co.
COMBINER CLIPS, assembling clips, Larton Products Co., Inc.
COMBINETS, laundry nets and fabrics, Davis Mills Inc.
COMBIND, ironer padding nets, Tingue, Brown & Co.
COMBO, combination checking desk, bag storage unit and garment bagger, Rodin Machinery Co., Div. Rodin Bros.
COMBUSTIONEER, automatic coal burner, humidifiers, Steel Products Engineering Co.
COMBY-R, laundry nets, Davis Mills Inc.
COMET, electric hoist, Chisholm-Moore Hoist Corp.
COMET, extractors, Hammond Laundry-Cleaning Machinery Co.
COMET, washer, Henrici Laundry Machinery Co.
COMFO CHEMICAL CARTRIDGE, respirators, Mine Safety Appliance Co.
COMMERCIAL, soap, Rome Soap Mfg. Co.
COMPACT, drycleaning machine, Ayr-Mor Machinery Co.
COMPACT, low-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
COMPAR, safety gloves, aprons, gasket material, Resistoflex Corp.
COMPLETE, laundry soaps, Fry Bros. Co.
COMPO, fiber marking tags, Fleischer Mills, Inc.
COMPO, marking tags, U. S. Marking Tag Co.
COMPOSITION 33, 91, soap builders, Turco Products, Inc.
COMPOUND 40, general formula spotter, Keystone Aniline & Chemical Co., Inc.
COMPRESSOR, stokers, Conco Engineering Works, Div. H. D. Conkey & Co.
CONDOR, hose, belting, rolls, Raybestos-Manhattan, Inc.
CONDO-VAC, return-line vacuum pumps for heating systems, Chicago Pump Co.
CON-D-TEX, mothproofing agent, Research Laboratories Corp.
CONNERSVILLE-CHIEF, rug and carpet cleaning equipment, Chief Mfg. Co.
CONSOLIDATED, safety and relief valves, Manning, Maxwell & Moore, Inc.
CONTINENTAL, steam generators, Boiler Engineering & Supply Co.
CONTINENTAL 18, self-polishing heavy-duty liquid floor wax, Continental Car-Na-Var Corp.
CONTINUOUS FLOW, washer, Bill Glover, Inc.
CONTIN-U-RAIL, speed rail, White Machine Co.
CONVAIR, converts foot press into air-operated press, New York Pressing Machinery Sales, Inc.
CONVERTIBLE, steel shelving, Berger Mfg. Div., Republic Steel Corp.
COOK EXTRACTETTE, pony extractor, Cook Machinery Sales Co.
COOK'S, lubricants, Adam Cook's Sons, Inc.
COOK WASHETTE, open-end washers, Cook Machinery Sales Co.
COOLAIR, fans, ventilating systems, American Coolair Corp.
COOLIDGE GRID, press pad, John E. Coolidge Co.
COOLIDGE, pad savers, Ink-O Products Co.
COOPER, pressing stands, bucks, tables, iron carriers, H. P. Cooper & Co.
COOPER-BESSEMER, compressors, diesel and gas engines, Cooper-Bessemer Corp.
COORDINATED PROCESS CONTROL, automatic control, Bristol Co.
COPALITE, interior varnish, Barreled Sunlight Paint Co.
COPES, high and low alarms, controls, regulators, governors, valves, Northern Equipment Co.
COPR-TUBE, copper tube fittings, Dresser Mfg. Div., Dresser Industries, Inc.
CORONET, (72 lbs. per hr.) drycleaning unit, Detrex Corp.
CORRIDOR, drinking fountains, Crane Co.
CORWITH, drinking fountains, Crane Co.
COSMOLINE, rust preventatives, E. F. Houghton & Co.
COTTAGE, steel direct-fired water heater, oil-gas, Kewanee Boiler Corp.
COTTONBLOSSOM, laundry textiles, Southern Mills, Inc.
COUNTERBOY, carton and package taping machine, Better Packages, Inc.
COV-EEZ, garment hanger shields, Larton Products Co., Inc.
COVERDUX, ironer covering, Tingue, Brown & Co.
COX, OF ENGLAND, manual steam water mixers, O'Brien Steam Specialty Co., Inc. (U. S. A. distributors)
CRAMER, tumers, R. W. Cramer & Co., Inc.
CRAVENETTE, water repellent, Cravenette Co., U. S. A.
CREAM FINISH, starch lubricant, Lewis National Corp.
CRESCENT, belt fasteners, plates, rivets, rivet extractors, Crescent Belt Fastener Co.
CRESCENT, laundry chemical specialty items, Hood Chemical Co., Inc., Crescent Div.
CRESCENT, try-cocks, Wright-Austin Co.
CRESTEX, sour, Hood Chemical Co., Inc., Crescent Div.
CRISRACKS, clothes racks, E. L. Christman Co., Inc.
CROSBY, gauges, valves, Crosby Steam Gauge & Valve Co.
CROWN, electric-steam irons, steam generators, electric irons, Crown Mfg. Co.
CROWN, laundry nets, Davis Mills Inc.
CRUCIBLE, stainless steel laundry equipment, Crucible Steel Co. of America
CRUSADER, nets, cover cloth, double-face flannel, cover duck, Egan Cotton Mills
CRYSTALITE, fluorescent lighting, Crystalite Co., Inc.
CRYSTAL VICTOR, laundry starch, Keever Starch Co.
CRYSTAMET, sodium metasilicate, Cowles Chemical Co.
CUB JR., steam trap, Wright-Austin Co.
CUFF BRUSHER, rotary cuff cleaner, Excelsior Machinery Co.
CUFF TACKER, sewing machine, Chandler Machine Co.
CULLIGAN, water softener service, Culligan Zeolite Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 300

CUMMINGS-LANDAU, laundry equipment, Cummings-Landau Laundry Machinery Co., Inc.
CURRY, feed ribbons, J. W. Curry Co.
CUSTOM, electric steam generators, Custom Engineering Co.
CUSTOM, shoulder finisher and shaper, Hopkins Equipment Co.
CUTLER-HAMMER, electrical equipment, motor control, Cutler-Hammer, Inc.
CYANEGG, sodium cyanide, E. I. du Pont de Nemours & Co., Inc.
CYCLENE, prespotter, A. F. Wolke Co.
CYCLO, heavy prespotter, R. R. Street & Co., Inc.
CYCLONE, exhaust head, Wright-Austin Co.
CYCLONE, hand power hoist, Chisholm-Moore Hoist Corp.
CYCLONE, washer, Henrici Laundry Machinery Co.
CYCLONE CONVEYORS, pneumatic conveyors, Eastern Cyclone Conveyor System, Inc.
CYCLOPS, needle bearing, Roller Bearing Co. of America
CYCLOTHERM STEAM GENERATORS, package type boiler, automatic oil or gas fired, Cyclotherm Corp.
CYLON, wetcleaning detergent, Patek & Co.

D

DSKL, concentrated liquid stripper and reducing agent, Carman & Co., Inc.
DA-CO, chemicals, cleaners, Davis-Weil Mfg. Co.
DAHLBERG, speed-rail conveyors, Dahlberg Machinery Co.
DAILY DELIVERY, marking tags, Pittsburgh Tag Co.
DAINTEX, wetting agent, Hercules Powder Co.
DAMASCITE, ferrous-base machine parts, Amplex Div., Chrysler Corp.
DAMIT, pipe joint compound, Quigley Co., Inc.
DAMP-TEX, enamel, Steelcote Mfg. Co.
DANA, dyeing process for garments, leather and rugs, Commercial Dye Works
DANDUX, canvas baskets, hampers, bags, trucks, C. R. Daniels, Inc.
DAPEX, mothproofing compound, Davison Chemical Co.
DARCO, activated carbon, Darco Dept. (Atlas Powder Co.)
DARNELL, wheels, casters, Darnell Corp.
DATERETTE, dating machine, American Numbering Machine Co.
DAVIS, controls, regulators, valves, Davis Regulator Co.
DAVIS, first-aid and emergency equipment, Davis Emergency Equipment Co.
DAVIS, shirt unit, Prosperity Co., Inc.
DAVIS, sleeve formers, Davis Specialties, Inc.
DAVIS NETS, laundry nets, Davis Mills Inc.
DAVIS OVERALL TAG, brass permanent marker, Keyes-Davis Co.
DAVIS RAY, press plates, Davis Specialties, Inc.
DAVIS TAG, permanent overall marker, Keyes-Davis Co.
DAVIS Z, laundry net, Davis Mills Inc.
DAVOTEX, leather cleaning and redyeing, C. O. D. Cleaning & Dyeing Co.
DAY-SOL, chlorinated solvent drycleaning soap, Davies-Young Soap Co.
DC FILTROL, adsorbent filter powder, Filtrol Corp.
DEAN HILL, centrifugal industrial power pumps, steam turbines, Dean Hill Pump Co.
DECAL, water softener, Washine National Sands, Inc.
DEEP ROCK, naphthas, petroleum solvents, Big Ben Petroleum Products Co.
DEFENDER, regulators, recording instruments, Defender Instrument & Regulator Co.
DEFLOC, laundry detergent, Cowles Chemical Co.
DELIBLE, dissolves indelibles, Warco Laboratories
DE-LIMER, lime solvent, E. F. Drew & Co., Inc.
DELIVR-ALL, delivery truck, Marmon-Herrington Co., Inc.
DELUXE, sizing, Huron Milling Co.
DE LUXE, uniforms, Shane Uniform Co., Inc.
DEMING, pumps, Deming Co.
DEMOTHOL, mothproofing solution, Signal Chemical Mfg. Co.
DENOMINATOR, tabulating machines, Denominator Company, Inc.
DEODOR, deodorant, Patek & Co.
DESOIL, break powder, Cowles Chemical Co.
DESTAINER, penetrating soap, A. L. Wilson Chemical Co.
D'ESTE, automatic regulating valves, D'Este Div., American Chain & Cable Co., Inc.
DETECTO, scales, Detecto Scales, Inc.
DETERGENT CL, drycleaning soap for synthetic solvent, Allen & Vickers, Inc.
DETERGENT N, drycleaning soap, Allen & Vickers, Inc.
DE-TER-GO, powder floor cleaner, Continental Car-Na-Var Corp.
DETERSYN, detergent for use with chlorinated solvents, Riverside Mfg. Co.
DETEX, watchmen's clocks, Detex Watchclock Corp.
DETREX, drycleaning equipment, solvent still, Detrex Corp.
DETROIT, belt lacers, belt cutters, Detroit Belt Lacer Co.
DETROIT, valves, W. M. Chace Co.
DEVERE SPEEDUX DIPMASTER, water-repellent dip tank, Devere Co.
DEVILBISS, compressors, spray guns, hose, De-Vilbiss Co.
DEXTER, valve reseating machine, Leavitt Machine Co.
D-FLOX, laundry detergent, Essential Chemicals Co.
DIAL, miniature bar soap, Armour & Co.
DIAL-O-TIME, laundry formula timer, Norman & Co.
DIAMO, stripper, stain remover, Lewis National Corp.
DIAMOND, ball, revolving and swing joints, Diamond Metal Products Co.
DIAMOND, chains, couplings, Diamond Chain Co., Inc.
DIAMOND, laundry chemicals, Diamond Alkali Co.
DIAMOND, water-treatment compounds, Oshkosh Filter & Softener Co.
DIAMOND BLUE, laundry bluing, Diamond Alkali Co.
DIAMOND DRYCLEANER, chlorinated cleaning solvent, Diamond Alkali Co.
DIAMOND T, motor trucks, Diamond T Motor Car Co.
DI-AQUA, anionic wetting agent, Diamond Alkali Co.
DIASAN, diaper sanitizer, H. Kohnstamm & Co., Inc.
DIAZOCEL, for dyeing Celanese and acetate silks, American Aniline Products, Inc.
DIAZYME, enzymic digester, Jacques Wolf & Co.
DICALITE, anti-static filter powder, Dicalite Div., Great Lakes Carbon Corp.
DICALITE 7, filter powder, Dicalite Div., Great Lakes Carbon Corp.
DICALITE SPEEDPLUS, straight diatomaceous filter powder, Dicalite Div., Great Lakes Carbon Corp.
DICALITE SWEETEX, sweetener, filter powder, Dicalite Div., Great Lakes Carbon Corp.
DIEHL, electric motors, generators, fans, Diehl Manufacturing Co., Div. Singer Mfg. Co.
DI/EN, digester, John P. Lynch Co.
DIGESTALL, digestive agents, Package Chemical Co., Inc.
DIGESTIT, enzymic digester, Riverside Mfg. Co.
DIOXY, drycleaning spotters, chemicals, Preston T. Rhodes
DIPMASTER, water-repellent dip tank, Devere Co.
DIP-O-MATIC, water-repellent dip tank, Hopkins Equipment Co.
DISCOVERY, handkerchief fluffer, Huebsch Div., American Laundry Machinery Co.
DISPERSO, silk and wool drycleaning soap, Spix Products Co.
DIS-PER-SOL, break powder, Thompson-Hayward Chemical Co.
DISPLAY-IT, shirt display cases, Time Savers, Inc.
DISTILLENE, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
DIVCO, delivery vehicles, Divco Corp.
DIX-E-HOLD, hangers, Marion Mfg. Co.
DIXIE, aprons, Minnesota Chemical Co.
DIXIE, laundry nets, Southern Mills, Inc.
DIXIE, tags, tapes, trouser guards, collar supports, Dixie Hanger Co.
DIXO, detergents, drycleaning soaps, grease, oil and paint removers, prespotters, wetcleaning soap, Dixo Co.
DIXON STEAM KING, Scotch marine boiler, Dixon Boiler Works
DIXON WATERWALL, Scotch marine boiler, Dixon Boiler Works
DIZOLV-IT, oil remover, Kliegman Bros., Inc.
DOBBY, mothproofing concentrate, Jay-Dee, Inc., Mfg. Chemists
DOCTOR BOILER, boiler water treatment compound, Doctor Boiler, Inc.
DODGE JOB-RATED TRUCKS, motor trucks, Dodge Div., Chrysler Corp.
DOG TEX, treatment for cat and dog stains, Hild Floor Machine Co.
DORAN, hat machinery, Hatters Supply House, Inc.
DOUBLE CHECK, zeolite water softener, Elgin Softener Corp.
DOUBLE DUTY SOUR, sour and blue combination, Diamond Alkali Co.
DOUBLE-VALVE, blanket brusher, American Laundry Machinery Co.
DOUBLEWEAR, apron duck, cover cloth, nets, Lewis National Corp.
DOUGLAS, corn starch, thin boiling starch, Penick & Ford Ltd., Inc.
DOVER DYPERCAN, deodorized diaper container, Dover Stamping Co.
DOWCLENE, synthetic cleaning solvent, Dow Chemical Co.
DOWFUME, fumigant, Dow Chemical Co.
DOW-PER, synthetic solvent, perchlorethylene, Dow Chemical Co.
DRAIN-DRI, cellar drainers, Yeomans Bros. Co.
DRAINTROL, condensation drainage device, Fred H. Schaub Engineering Co., Inc.
DRAVO COUNTERFLO, heater, Dravo Corp.
DRAX, water repellents, S. C. Johnson & Sons, Inc.
DRES'N'SPORT, dress and sport shirt folding machine, G. H. Bishop Co.
DRESSER, clamps, couplings, fittings, Dresser Mfg. Div., Dresser Industries, Inc.
DRESSMASTER, steam-air garment finisher, Hopkins Equipment Co.
DREW, ironer oil, E. F. Drew & Co., Inc.
DREW 90 PLUS POWDER, soap plus medium pH alkali builder and water conditioner, E. F. Drew & Co., Inc.
DREX-KLEEN, carbon tetrachloride solvent, Detrex Corp.
DRI-BORD, steam-heated press boards, Kisco Boiler & Engineering Co.
DRI-BRITE GLOSS, Persian lamb luster, Nycco Products Co.
DRICO, air cleaners, filters, separators, strainers, Drico Industrial Corp.
DRIEX, water-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
DRI-FLO DIPIT, indelible laundry and drycleaning marking set, Dri-Flo Mfg. Co.
DRI-FOAM, rug and furniture shampoo, Crossland Mfg. Co., Inc.
DRI-HAND, dampener and moisture regulator, J. W. Steele & Co.
DRI-RINSE, drycleaners' sour, Johnson Chemical Industries, Inc.
DRISEAL, shirt bands, Driseal Co.
DRI-SHEEN, alkaline detergent, Adco, Inc.
DRI-SHEEN PROCESS, charged system method of cleaning, Adco, Inc.
DRISIZE, synthetic resin sizing for use in petroleum solvent, Eaton Chemical & Dyestuff Co.
DRI-STEAM, air cleaners, filters, separators, strainers, valves, Drico Industrial Corp.
DRISYN, detergent cleaning soap, E. F. Drew & Co., Inc.
DRI-TEX, detergents, Spix Products Co.
DRITHERM, infra-red heat lamps, North American Electric Lamp Co.
DRI-TOP, ironing board, G. H. Bishop Co.
DRUCLOR, powdered hypochlorite bleach, E. F. Drew & Co., Inc.
DRUM MASTER, fur cleaning drum, Walter Haertel Co.
DRUMMOND FLAKE SOAP, laundry soap, Standard Soap Co. of Camden
DRUZOL, heavy-duty detergent, E. F. Drew & Co., Inc.
DRYCLEAN, spot remover, E. I. du Pont de Nemours & Co., Inc.
DRYCO, water spray gun, valves, steam condensers, Dryco Corp.
DRYCOMATIC, steam-electric iron, Dryco Corp.
DRYCON-CARCO, intensified drycleaning detergent, Carman & Co., Inc.
DRY MASTER, clothes tumbler, National Dryer Mfg. Co.
DRYMASTER, drying cabinets, Hopkins Equipment Co.
DRY-O-MATIC, signal and alarm control for tumblers, Rosenthal Mfg. Co.
DRY-O-WET, spot remover, Slater-Robbins Co. Inc.
DRYSET, vacuum systems, Lamson Corp., Blower Div.
DRY-SOPE, drycleaning soap, Murphy Sales Co.
DUALCRAFT, press pads, Padcraft Corp.
DUBLECOTE MULTI-SHINGLES, asphalt roofing shingles, Barrett Div., Allied Chemical & Dye Corp.
DUBLIFE, replacements for collars, cuffs, neckbands and trouser pockets, Dublife Collar Co.
DUCO, finishes, E. I. du Pont de Nemours & Co., Inc.
DUFFEL, laundry nets, Southern Mills, Inc.
DUKE, trouser guards, suit, dress and drape hangers, Memphis Hanger Co. and Pittsburgh Hanger Co.
DULUX, finishes, E. I. du Pont de Nemours & Co., Inc.
DUNAWAY, spot removers, digesters, H. D. Dunaway & Co.
DUO, ironer, Zephyr Laundry Machinery Co.
DUODEX, carpet antiseptic, Carman & Co., Inc.
DUO-TEX CONC., drycleaning soap, Keystone Aniline & Chemical Co., Inc.
DUPLEX, collar supports, Time Savers, Inc.
DURABILT, laundry and drycleaning washer, Gardner Machinery Corp.
DURABLE, fiber boxes and shipping cases, Durable Fibre Sample Case Co.
DURABLE, wire pressboard for velvet and nap fabric materials, American Pressboard Co.
DURACAL, covers and padding combinations, Patek & Co.
DURAFLEX, stokers, Canton Stoker Corp.
DURO, blow-off valve, Lunkenheimer Co.
DURO, press covers, R. Lally Co.
DUROIL, fiber sheet packing, Raybestos-Manhattan, Inc.
DUROTEX, press covers, R. Lally Co.
DUSTFOE, respirators, Mine Safety Appliance Co.
DUST STOP, air filters, Owens-Corning Fiberglas Corp.
DU-TEX, stain remover, Warco Laboratories
DUTTON, boilers, pumps, Hapman-Dutton Co., Dutton Boiler Div.
DUX COTE, water repellent, Eaton Chemical & Dyestuff Co.
DUX-IT, solvent-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
DWYER, gauges, indicators, F. W. Dwyer Mfg. Co.
DYCO-SIZE, garment retexturing compound, Davies-Young Soap Co.
DYDROSITE, stripping agent, Nu-Pro Mfg. Co.
DYE-CRETE, penetrating concrete color hardener, Wilbur & Williams Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

DYNAMIC DUMPER, unloading washer, Miller Laundry Machinery Co.
DYNASOPE, concentrate, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
DY-100, liquid drycleaning soap, Davies-Young Soap Co.
DYPERCAN, sanitary diaper cans, Dover Stamping Co.
DYSCO, wetcleaning silk and wool soap, Davies-Young Soap Co.
DYSOLVO, soap, Davies-Young Soap Co.
DY-SULPH, synthetic wetcleaner, Davies-Young Soap Co.
DYTEX RUSTERASER, rust remover, Dytex Chemical Co.

E

EFTT, electric power fork truck, Lewis Shepard Products, Inc.
EASTON, woven cotton belting, Victor Balata & Textile Belting Co.
EASY-ON, wood strut hanger, Nagel Coat Hanger Co.
EASY PRESS, manually operated drycleaning press, Goldman Pressing Machine Corp.
ECCO, blues, ironer oil, spot removers, repellents, prespotters, tints, soaps, Eaton Chemical & Dyestuff Co.
ECCODUX, water repellent, Eaton Chemical & Dyestuff Co.
ECCOFORM, spot remover, Eaton Chemical & Dyestuff Co.
ECCO KOBO, odor neutralizer, Eaton Chemical & Dyestuff Co.
ECCOSIZE, textile finish, Eaton Chemical & Dyestuff Co.
ECLIPSE PIONEER, flexible metal hose, Eclipse Pioneer Div., Bendix Aviation Corp.
ECO, hand cream, Davis Emergency Equipment Co., Inc.
ECO, watchmen's clocks, Detex Watchclock Corp.
ECONO, drycleaning soap, Package Chemical Co., Inc.
ECONO, sour, Diamond Alkali Co.
ECONO-CAL, drycleaning detergents, Caled Products Co., Inc.
ECONOFEED, boiler feed pump and condensate return system, Hapman-Dutton Corp., Dutton Boiler Div.
ECONOMASTER, boiler, Hapman-Dutton Co., Dutton Boiler Div.
ECONO-MATIC, drycleaning unit, Prosperity Co., Inc.
ECONOMIC, boilers, Erie City Iron Works
ECONOMIST, boiler, Hapman-Dutton Co., Dutton Boiler Div.
ECONOMITE REGISTERS, autographic registers, Autographic Register Co.
ECONOMIZER, boiler, Hapman-Dutton Co., Dutton Boiler Div.
ECONO MOISTLESS, paper bands, Economy Tablet & Paper Co.
ECONOMY, drycleaner's bag, Diem & Wing Paper Co.
ECONOMY, hanger bar covers, Phoenix Products Co.
ECONOMY, hanger forming machine, Economy Hanger Machine & Equipment Co.
ECONOMY, marking pins, Keyes-Davis Co.
ECONOMY, sour, Superior Products Co.
ECONOMY, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.
ECONO-SCOOP, steel weighing hand scoop, Blemco Co.
ECONOTHERM, generators, Hapman-Dutton Co., Dutton Boiler Div.
ECON-O-VEYOR, laundry conveyors, Shuler Conveyors, Inc.
EDWARDS EXCHANGER, de-ionized water unit, Hungerford & Terry, Inc.
EGAN, ironer and press padding, feed ribbons, Egan Cotton Mills
EGRY ELITE, register, business system, Egry Register Co.
1838, marking ink, liquid laundry blue, Eaton Chemical & Dyestuff Co.
886, strong soap formula, R. R. Street & Co., Inc.
EJECT-O-VAC, self-cleaning vacuum cleaner, Continental Car-Na-Var Corp.
ELAINE, red oil (oleic acid), Emery Industries, Inc.
ELASTIGUM, roof cement, roof coating, Barrett Div., Allied Chemical & Dye Corp.
ELCCO, garment press, steam puffer, spotting and finishing machine, E. L. Chrisman Co., Inc.
ELCONITE, standard greensand zeolite, Elgin Softener Corp.
ELDURITE, synthetic zeolite, Elgin Softener Corp.
ELECTRO, water conditioner, Stomac Engineering Co., Inc.
ELECTROCLENE, drycleaning washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
ELECTROFLUID, motorized hydraulic drive, Link-Belt Co.
ELECTRO LIFT HOISTS, hoists, Electro Lift, Inc.
ELECTROMANUAL, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
ELECTROMATIC, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
ELECTRO-MEND, mending machines and tabs, Simmons Machine Co.
ELECTRO NEUTRALIZER, water-conditioning apparatus for steam boilers, Electro Chemical Engineering Co., Inc.
ELECTRUNITE, stainless steel tubing, Republic Steel Corp.
ELGIN, water softening and conditioning equipment and chemicals, water filters, Elgin Softener Corp.
ELITE, ironer covercloth, Tingue, Brown & Co.
ELITE TRU-PAK, autographic register, Egry Register Co.
ELLIS, laundry machinery, Ellis Drier Co.
ELMO, stripper, A. L. Wilson Chemical Co.
ELNA, sewing, mending machine, Mark-O Corp.
EMERALD, felt, flannel, Pittsburgh Waterproof Co.
EMERSOL, stearic acid, Emery Industries, Inc.
EMPIRE, firebrick, A. P. Green Fire Brick Co.
EMBRENE, O.D., concentrate for petroleum drycleaning, Wonder Wash Corp.
EMRENE WET SIZE, resizer for wetcleaned garments, Wonder Wash Corp.
EMULSIVE, wheat starch, Keever Starch Co.
ENDOR, steam tumbler, Hammond Laundry-Cleaning Machinery Co.
ENDURO, coil-spring press pad, Zeidler Mfg. Co.
ENDURO, laundry detergents, chemicals, Aurora Manufacturing Co.
ENDURO, stainless steel, Republic Steel Corp.
ENDURO, wetcleaning sour, Aurora Manufacturing Co.
ENERGETIC, wetcleaning synthetic detergent, Armour & Co.
ENGINAIR, compressor, Westinghouse Air Brake Co., Industrial Products Div.
ENZ-O-SAN, powdered digester, Huntington Laboratories, Inc.
ENZYMERSE, enzymic digester, George E. Mead Co.
EQUALIZER, valve by-pass, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
ERAD-INK, ink remover, A. L. Wilson Chemical Co.
ERADOL, color stripper, National Cleaners Chemical Mfg. Co.
ERASINE, ink remover, Lewis National Corp.
ERIE CITY, boilers, underfeed stokers, Erie City Iron Works
ERIFON, flame retardant, E. I. du Pont de Nemours & Co., Inc.
ERMCO, rug conveyor and equipment, American Laundry Machinery Co.
ERMINE, starch, Washine National Sands, Inc.
ERUSTICATOR, rust stain remover, Pennsylvania Salt Mfg. Co.
ERUSTO, spot and stain remover, dry and wetcleaning soaps, laundry sour, Pennsylvania Salt Mfg. Co.
ERUSTO-CETIC, sour for wetcleaning, Pennsylvania Salt Mfg. Co.
ERUSTOCIDE, laundry sour, Pennsylvania Salt Mfg. Co.
ERUSTO DDT EMULSION, insecticide, Pennsylvania Salt Mfg. Co.
ERUSTO ENERGEX, drycleaning products, Pennsylvania Salt Mfg. Co.
ERUSTOLIN, laundry sour, Pennsylvania Salt Mfg. Co.
ERUSTO LIQUI-BLUE, laundry blue, Pennsylvania Salt Mfg. Co.
ERUSTO-MAX, laundry sour, Pennsylvania Salt Mfg. Co.
ERUSTO-RAY, laundry sour, Pennsylvania Salt Mfg. Co.
ERUSTO SALTS, laundry sour, Pennsylvania Salt Mfg. Co.
ERUSTOSOL, laundry sour, Pennsylvania Salt Mfg. Co.
ESCO, high pH soap builder, Cowles Chemical Co.
ESCOFOS, soap regenerator, Cowles Chemical Co.
ESCOLITE, medium pH soap builder, Cowles Chemical Co.
ESCOLLOID, medium pH soap builder, Cowles Chemical Co.
ESCOL 77, high pH soap builder, Cowles Chemical Co.
ESCOMO, liquid blue, Cowles Chemical Co.
ESCO-SAVON, hot-water soap (east of Rockies only), Cowles Chemical Co.
ESPECCO, solvent, starches, Superior Products Co.
ESSO BOND, air-setting, high-temperature cement, Ramtite Co., Div. S. Obermayer Co.
ETERNIT, asbestos-cement sheets for roofs and sidewalls, Ruberoid Co.
ETHRO, rug and carpet shampoo, North Coast Chemical & Soap Works
EULANS, mothproofing agents, General Dyestuff Corp.
EUREKA, belt dressing, Standard Oil Co.
EUREKA, marking pins, Keyes-Davis Co.
EUREKA, wetcleaning laundry powder, North Coast Chemical & Soap Works
EVALIZED, rust-resistant process, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
EVALLOY, stainless steel, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
EVALPAK, valve packing, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
EVALTHRUST, ball bearing, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
EVAPO-GAS, moth fumigant, Nycco Products Co.
EVERDUR, copper silicon alloy, American Brass Co., American Metal Hose Branch
EVERJET, paint, Barrett Div., Allied Chemical & Dye Corp.
EVERLASTING, valves, Everlasting Valve Co.
EVER-LITE, lighting fixtures, Ever-Lite Co.
EVER MOIST, dampening device, Time Savers, Inc.
EVERREADY, hat and garment boxes, Automatic Paper Box Corp.
EVERWEAR, double-face padding, Tingue, Brown & Co.
EVINLAY, hard-surfaced inlay, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
EWART, detachable link belt chains, Link-Belt Co.
EWING PONY, wood pony laundry washer, R. Ewing & Sons, Inc.
EXACTO, pre-numbered marking tags, hanger racks, loop assembly hooks, clips, belt wheel, rack dividers, Perfection Products Co. & Identification, Inc.
EXCEL, paint and grease spotter, Murphy Sales Co.
EXCELAL, starch finish, Eaton Chemical & Dyestuff Co.
EXCELL-O, cellophane tying ribbon, Freydberg Bros.-Strauss, Inc.
EXCELSIOR, hatters' and steam spotting, finishing equipment, Excelsior Machinery Co.
EXHAUSTEAM, steam purifier, Morehead Manufacturing Co.
EXIDE, storage batteries, Electric Storage Battery Co.
EXIDUST, industrial vacuum cleaners, Lamson Corp., Blower Div.
EXPANDO, collar supports, Time Savers, Inc.
EXPRESS-LINE, conveyors, B & G Machinery Co., Inc.
EXSIZE-T, starch-removing desizing agent, Pabst Sales Co.
EX-SOIL-O, drycleaning soap, Davies-Young Soap Co.
EXTRACTETTE, extractor, Cook Machinery Sales Co.
EXTRACTING WASHER, washing and extraction in one operation, Butler Mfg. Co.
EXTRACTOR, leather belting, Webb Belting Co.
EXTRA SOLUBLE COLORFIXE, sours, H. Kohnstamm & Co., Inc.
EXZYME, enzymic spotting agent, Pabst Sales Co.
E-Z IRON, finishing-board pads, Fullo Corp.
EZ-OFF, metal cleaner, Boston Clip & Tag Co.
E-Z SQUEEZE, water spray gun, Dryco Corp.
EZY, drycleaning press, Prosperity Co., Inc.
EZY-KLEEN, strainers for pumps and pipelines, Blackmer Pump Co.

F

F.B., loose-leaf holders, Speed Products Co., Inc.
F.B.C., drycleaning detergent, Fry Bros. Co.
F & E, underfeed stokers, Flynn & Emrich Co.
FF, tickings, Freund, Freund & Co.
FABRICARE, drycleaning finishing equipment, Dryco Corp.
FABRICHEAD, puff irons, Excelsior Machinery Co.
FABRICOL, drycleaning soap, R. R. Street & Co., Inc.
FABRIC-RENEWING, press plates, Davis Specialties, Inc.
FABRIT, heat-sealing mending tape, Madison Products Co.
FABTEX, water repellent, Merson Products Co.
FAB-TEX, water repellent, Spix Products Co.
FAIRBANKS-MORSE, pumps, motors, engines, stokers, Fairbanks Morse & Co.
FAMILY WORK STARCH, laundry starch, Keever Starch Co.
FAN-AIR, automatic gas burners (mechanical draft), Lee B. Mettler Co.
FAN-PAC, packaged ventilation, DeBothezat Fans Div., American Machine & Metals, Inc.
FANTOM-FAST, invisible identification system, National Marking Machine Co.
FASEL, prespotter, Package Chemical Co.
FASTOGENE, textile finishes and assistants, American Aniline Products, Inc.
FEATHER, air compressor valves, Worthington Pump & Machinery Corp.
FED TEX, industrial wiping towels, Federal Textile Corp.
FELAN, durable water-repellent finish, E. I. du Pont de Nemours & Co., Inc.
FENO, protective hand cream, Mine Safety Appliance Co.
FENT-ONAMEL, labels, Fenton Label Co.
FERA-FLOW, non-slip paint, American Abrasive Metals Co.
FERRENEWO, angle and globe valve, Lunkenheimer Co.
FERROSAN, iron-removal filters, Hungerford & Terry, Inc.
FERROX, non-slip flooring composition, American Abrasive Metals Co.
FIBERCOTE, roof covering, Midland Paint & Varnish Co.
FIBERGLAS, cloth, insulations, etc., Owens-Corning Fiberglas Corp.
FIBEROLLS, for use with marking machines, Textile Marking Machine Co., Inc.
FIELD, draft controls, Conco Engineering Works, Div. H. D. Conkey & Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

FIELDEN, liquid level control instrument, Fielden Instrument Corp.
50-FOLD, concentrated drycleaning soap, National Cleaners Chemical Mfg. Co.
FILPRO, vacuum still, U. S. Hoffman Machinery Corp.
FILTERMASTER, solvent filter, Hopkins Equipment Co.
FILTER-SOL, liquid drycleaning soap, Davies-Young Soap Co.
FILTERSTILL, filters, Martin Equipment Co.
FILTROL DC, adsorbent filter aid, Filtrol Corp.
FILTROLENE, synthetic drycleaning soap, Slater-Robbins Co. Inc.
FILTRON, electronic filter, U. S. Hoffman Machinery Corp.
FILTROSAN, drycleaning soap, Stoddard solvent, Slater-Robbins Co. Inc.
FILT-R-OUT, drycleaning soap, Caled Products Co., Inc.
FINISH 21, dye fixer, Apex Chemical Co., Inc.
FINNELL, starch reclaimer, Lewis National Corp.
FIREBOX, coal, oil, gas stokers, high and low pressure, Kewanee Boiler Corp.
FIRECRETE, refractory cement, Johns-Manville
FIREITE, asbestos furnace cement, Johns-Manville
FIREYE, safeguards, controls, Combustion Control Corp.
FIREFLY, asbestos pads, Firefly Asbestos Products Co.
FIT-ALL, sleeve forms, Davis Specialties, Inc.
FITPOLD, boiler return systems, U. S. Hoffman Machinery Corp.
5-L, laundry starch, Clinton Foods, Inc.
FLAG-TAGS, special tags, Stry-Lenkoff & Co.
FLALON, nylon flannel for press pads, Burgess-Berliner Associates
FLAME CHEK, flameproofing agent, Chek Products, Inc.
FLAME PROOF XWX, flameproofing agent, Apex Chemical Co., Inc.
FLAMINEL, Monel press pads, Resillo Co.
FLAN-L-LESS, metal press pads, X. S. Smith, Inc.
FLASH-O-MATIC, marking machine, Flash-Fast Div., Louis Marks, Inc.
FLETCHER, extractor, Fletcher Works, Inc.
FLEXCO, belt fasteners, Flexible Steel Lacing Co.
FLEXFORM, garment shaper-drier, Tri-Pak Machinery Service, Inc.
FLEXI-BILT, bins, Berger Mfg. Div., Republic Steel Corp.
FLEXIMATIC, linen folder, Troy Laundry Machinery Div., American Machine & Metals, Inc.
FLEXITE, rubber buckets, dippers, funnels, B. F. Goodrich Co.
FLEXOL, starch, Washine National Sands, Inc.
FLEXOL DOP, plasticizer to soften hardened waterproof innerlinings, Eaton Chemical & Dyestuff Co.
FLEX V, belt fasteners, Flexible Steel Lacing Co.
FLINT, neutral high-titer soap chip and powder, Armour & Co.
FLOATS OFF, liquid synthetic detergent, J. Holcomb Mfg. Co.
FLO-KLEAR, soap for charged systems, Pennsylvania Salt Mfg. Co.
FLOORKOTE, enamel, Tropical Paint & Oil Co.
FLOORMASTER, trucks, Lewis-Shepard Products, Inc.
FLOOR-SAN, floor cleaning compound, Huntington Laboratories, Inc.
FLOOR-VEYOR, permanent installation power belt conveyor, Rapids-Standard Co., Inc.
FLOWRATER, solvent meter for filters, Fischer & Porter Co.
FLUFFED EDGE, padding cotton, Pittsburgh Waterproof Co.
FLUORIUM, fluorescent fabric finish, Beach Soap Co.
FLUSH-KLEEN, sewage ejectors, Chicago Pump Co.
FLUTIRON, ruffle ironer, Maxant Button & Supply Co.
FOAM-ASBESTOS, foam rubber laminated drycleaning pad, Gustin-Kramer Co.
FOAMITE, fire extinguishers, American-La France-Foamite Corp.
FOAMONEL, sponge press pads, Resillo Co.
FOAMSUDS, liquid coconut soap, E. F. Drew & Co., Inc.
FOLD-A-WAY, shirt baskets and trucks, Time Savers, Inc.
FOLD-KING, shirt-folding device, Time Savers, Inc.
FOLDMASTER, flatwork folder, American Laundry Machinery Co.
FOLDOMAT, portable small flatwork folding, stacking, counting machines, Pioneer Development Co.
FOLDRITE, flatwork folder, American Laundry Machinery Co.
FOLDRITE, shirt folding and finishing equipment, Time Savers, Inc.
FORD, gasoline trucks and engines, Ford Div., Ford Motor Co.
FORMALENE, chloroform substitute spotter, A. F. Wolke Co.
FORMANIL, aniline dyes, American Aniline Products, Inc.
FORMATIC, automatic shirt folder, American Laundry Machinery Co.
FORMATIC, shirt unit and presses, American Laundry Machinery Co.
FORM-A-TIME CONTROL, washer timer, Van Chemical Co.
FORMATROL CYCLE TIMER, automatic washer control, Prosperity Co., Inc.
FORM FIT, garment hangers, Pacific Coat Hanger Mfg. Co.
FORM MASTER, portable forming machine, Walter Haertel Co.
FORM-RITE, collar shaper, Huebsch Div., American Laundry Machinery Co.
FORMULA CONTROLS, INC., formula control for washers, Formula Controls, Inc.
FORMULA S, built, powdered, low-titer soap, Swift & Co.
FORMULA 71, drycleaning soap, Northeastern Soap & Chemical Co.
FORMULA 12, drycleaning soap, Package Chemical Co., Inc.
FORMULA W-51, ink remover, A. L. Wilson Chemical Co.
FORSE, presses, laundry and drycleaning equipment, Forse Equipment Corp.
FOSKLOR, chlorinated sodium phosphate, Westvaco Chemical Div., Food Machinery & Chemical Corp.
FOSTER-STEPHENS, window posters, photo-truck-posters, sales promotion material, newspaper mats, Foster-Stephens, Inc.
FOUR-ACES, synthetic wetcleaner in powder form, National Cleaners Chemical Mfg. Co.
400, liquid drycleaner, Adco, Inc.
411, powdered synthetic detergent, Armour & Co.
FOUR STAR, wheat paste starch, Keever Starch Co.
422, built anionic synthetic detergent, Armour & Co.
FOXBORO, indicating, recording, controlling instruments, Foxboro Co.
FRACTO-CRETE, castable refractory, Ramtite Co., Div. S. Obermayer Co.
FRANKLIN'S, cement treatment, cleaners, polishes, waxes, wood seal, Franklin Research Co.
FRATEX, cotton pads, covers and flannels for drycleaning presses, Franklin Textile Mills
FRE-BIR-PAC, cloth counters, automatic towel and diaper counters, Fre-Bir-Pac, Inc.
FREE-VANE, air-operated controller, Bristol Co.
FREE-VANE, electric controller, Bristol Co.
FREMONT, rubber floor tile, mats, matting, Fremont Rubber Co.
FRESH-AIR MAKER, fans, blowers, Schwitzer-Cummins Co.
FREUND, tickings, Freund, Freund & Co., Inc.
FRIGIDAIRE, conditioners, coolers, Frigidaire Div., General Motors Corp.
FRINGE-IT, fringe cleaner, Certified Chemical & Equipment Co.
FRONTIER BRAND, belt dressing, Riverside Chemical Co., Inc.
FROST-PROOF, pipe covering and blocks, Ruberoid Co.
FRUGAL, soap, Minnesota Chemical Co.
FRYBRO, black indelible marking ink, ironer oil, Fry Bros. Co.
FRYE, dye dippers, E. B. Frye & Son
FRY'S SPECIAL, clipper laced aprons, Fry Bros. Co.
FUEL-SAVER, watertube boilers, International Boiler Works Co.
FUL-FLO, laundry nets and fabrics, Davis Mills Inc.
FULTON, laundry nets, Southern Mills, Inc.
FULTON, small-horsepower steam boilers, Fulton Boiler Works, Inc.
FUMOL, mothproofing agent, Fumol Corp.
FUR-E-OIL, re-oiling and softening agent for furs and leathers, Package Chemical Co., Inc.
FUR-LASTIC, burned-fur softener, Harry Jay Treu, Inc.
FURMOST, chart for estimating repairs and remodeling of furs, Mannie Rothleder
FURNAS-CRETE, castable refractory, Mexico Refractories Co.
FUR-RAY, fur cleaner and reconditioner, Jay-Dee, Inc., Mfg. Chemists
FURTEX, fur finishing equipment, Furtex Rejuvenating Corp.
FYR-FEEDERS, stokers, American Coal Burner Co.

G

GFTT, gas power fork truck, Lewis-Shepard Products, Inc.
G & G, liquid or powdered stripper, bleacher, G & G Chemical Co.
GOP, grease, oil and paint remover, Eaton Chemical and Dyestuff Co.
GALVANUM, for galvanized iron, Vita-Var Corp.
GARCO, hangers, wire trouser guards, collar supports, Garment Hanger Co.
GARD, combined flameproofing and mothproofing agent, U. S. Chemical Products Co.
GAS-HEAT, recirculators, Kisco Boiler & Engineering Co.
GASWAY, gas-heated flatwork ironers, Gasway Corp.
GAVSCO, valves, Golden-Anderson Valve Specialty Co.
GEARHART, reweaving, inweaving and hosiery mending needles, Columbia Needlework Supply Co., Gearhart Runner Knitter Co.
GEARLESS, washers, Zephyr Laundry Machinery Co.
GEEP, wet and dry spotter, Keystone Aniline & Chemical Co., Inc.
GELATONE, liquid size and finish, R. R. Street & Co., Inc.
GEMZYME, enzymic digester, George E. Mead Co.
GENERAL, perchlorethylene drycleaning units, Martin Equipment Corp.
GENERAL ELECTRIC, electrical equipment, General Electric Co.
GENERAL FORMULA, stain remover, G & G Chemical Co.
GERMITEX, sour, Hood Chemical Co., Inc., Crescent Div.
GIANT, built high-titer soap powder, Armour & Co.
GIANT, hydraulic extractor, Strike's Laundry Machinery, Inc.
GIANT KING, net pins, Keyes-Davis Co.
GIBRALTAR, alkali, Washine National Sands, Inc.
GIBRALTAR, marking and printed tags, Commercial Tag Co.
GIBRALTAR TRI-PRONG CLIP, skirt hanger fastener, Commercial Tag Co.
GI-GR-NITE, casters, Clinton Products Co.
GILBARCO, oil burners, Gilbert & Barker Mfg. Co.
GILMER, V-belts, flat belting, L. H. Gilmer Co., Div. U. S. Rubber Co.
GILT EDGE, round leather belting, I. B. Williams & Sons
GLAMORENE, carpet cleaning compound, Jerclaydon, Inc.
GLAZEEN, fur glazing fluid, Package Chemical Co., Inc.
GLAZOLENE, seal luster, Nycco Products Co.
GLEEM, liquid wetcleaning soap, Trico Chemical Div., Tri-State Equipment Co.
GLENN ANDERSON, paper collar supports, Howe Paper Corp.
GLENZIP, zipper repair tools, supplies, Glen Zip Co.
GLIDE LINER, pressing machines, laundry power presses, Unipress Co.
GLIDER, electric irons, J. W. Steele & Co.
GLIDER, pressing machine, Loyal Textile Machinery Corp.
GLIM, detergent, General Aniline & Film Corp., Special Products Sales Div.
GLISS'N, liquid rug and upholstery cleaner, Gliss'n Products Co., Inc.
GLOBE, drycleaning marking and strip tags, Globe Ticket Co. of New England
GLOBE, laundry, drycleaning washers, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
GLORY, tallow soap chips, Swift & Co.
GLOSSTEX, canvas products, C. R. Daniels, Inc.
GLOVER, cleaners' specialties, Bill Glover, Inc.
GLUV-NU, glove soap, Davies-Young Soap Co.
GLYD-ON, shirt clip, Time Savers, Inc.
GMC TRUCKS, motor trucks, GMC Truck & Coach Div., General Motors Corp.
GO-BACK, conveyors for flatwork presses, Rosenthal Mfg. Co.
GOLDEN, laundry soaps, Fry Bros. Co.
GOLD-FLO, boilers and condensation return system, Goldman Pressing Machinery Corp.
GOLD LINE, laundry fabric, Tingue, Brown & Co.
GOLD MEDAL, hatters' chemicals, machinery, Hatters Supply House, Inc.
GOLD MEDAL, nets, Southern Mills, Inc.
GOLDSEAL, colored specialty tapes, Gummed Tape & Devices Co.
GOLD SEAL, rug shampoo, Huntington Laboratories, Inc.
GOLD STAR, feed ribbons, L. H. Gilmer Co., Div. U. S. Rubber Co.
GOODRICH, rubber hose, belting, packing, B. F. Goodrich Co.
GORTON, air eliminators, Gorton Heating Corp.
GRAND, hatters' equipment, supplies, Maxant Button & Supply Co.
GRANOLITH, paint for brick, concrete, stucco, Barreled Sunlight Paint Co.
GRANTHAM, unloading tumblers, U. S. Hoffman Machinery Corp.
GRANUWAX, granulated wax, Lewis National Corp.
GREAVES, silent bakelite gears, milling machines, Greaves Machine Tool Co.
GREENBACK, apron duck, John T. Stanley Co., Inc.
GREEN BUBBLES, soap powder, Minnesota Chemical Co.
GREENCOTE, refractory maintenance coating, A. P. Green Fire Brick Co.
GREEN GLO, oil soap, Allen B. Wrisley Co.
GREEN LABEL, builder compound, Solvay Sales Div., Allied Chemical & Dye Corp.
GREEN LABEL, laundry fabrics, R. Lally Co.
GREEN OLIVE, soap, Rome Soap Mfg. Co.
GREENSTRIPE, cover cloth, John T. Stanley Co., Inc.
GREEN STRIPE, padding, William E. Hooper & Sons
GREENWOOD, pins, sewing needles, binding tape, Greenwood Textile Co.
GREENZYME, digestive enzyme, Greenville Chemical Co.
GREIF, hangers, guards, Greif Bros. Cooperage Corp., Wire Garment Hanger Div.
GRESOL, break powder, Spears Co.
GREYHOUND, extractor, synthetic washer, wash-wheel, Hercules Laundry Machinery Co., Inc.
GREYHOUND, washers, U. S. Hoffman Machinery Corp.

For manufacturers' addresses see MANUFACTURERS' list beginning page 306

GREY-ROCK, brake lining, clutch facings, brake blocks, Raybestos-Manhattan, Inc.
GRIMES, air compressors, Grimes Co.
GRIPNET, nylon net closures, Keyes-Davis Co.
GRIPPO, slip-resistant trouser guard, Patek & Co.
GRIPPO GUARD, trouser guards, L. M. Leathers' Sons
GRIPTITE, bagging rod clamp, G. H. Bishop Co.
GRIP-TITE, marking tags, Liberty Marking Tag Co., Inc.
GRIPTITE, rug pole hangers, American Laundry Machinery Co.
GROSS, drycleaning extractors, filters, tumblers, washers, Gross Machinery Co., Inc.
GROSSAIR, open-end tumbler, Gross Machinery Co., Inc.
GROSS-OMATIC, safety petroleum drycleaning unit, Gross Machinery Co., Inc.
GROSS STAR, grid plates, electric steam irons, ironing boards and tables, L. Behrstock Co.
GROSS-X, tumbler, Gross Machinery Co., Inc.
G-SEAL, pipe joint compound, Quigley Co., Inc.
G-SOL, drycleaning soap, G & G Chemical Co.
GUARANTEED, built, powdered high-titer laundry soap, Swift & Co.
GUARDSMAN, watchclock, Detex Watchclock Corp.
GUMCRAFT, tapes, labels, Gummed Tape & Devices Co.
GUTH FLUORESCENT, fluorescent lighting equipment, Edwin F. Guth Co.
GUTH GERM-KILLING LIGHTS, bactericidal lighting equipment, Edwin F. Guth Co.

H

H, water soluble grease, Keystone Lubricating Co.
HD, belt fasteners, Flexible Steel Lacing Co.
H.K., water repellent, H. Kohnstamm & Co., Inc.
H-O, disinfectant, Huntington Laboratories, Inc.
HTH, soda bleach mix, calcium hypochlorite with soda base, Mathieson Chemical Corp.
HW, liquid soap, Eaton Chemical & Dyestuff Co.
HAERTEL, fumigation cabinet, garment racks, fur vault door, Walter Haertel Co.
HAGAN, combustion control for boilers, Hagan Corp.
HAGAN RING BALANCE, flow meters, Hagan Corp.
HAGER STOKER FEEDER, screw-type conveyor, Hager Bros.
HAMILTON, casters, wheels, trucks, Hamilton Caster & Mfg. Co.
HAMILTON, spring padding, American Laundry Machinery Co.
HAMMEL-DAHL, valve controls, valves, Hammel-Dahl Co.
HAMMOND, washers, tumblers, etc., Hammond Laundry-Cleaning Machinery Co.
HANCOCK, globe, angle and gate valves, Manning, Maxwell & Moore, Inc.
HANDEE, presses, Forse Equipment Corp.
HAND-FILM, protective hand cream, National Cleaners Chemical Mfg. Co.
HANDI, bundle and garment racks, Speare Co.
HANDIPAK, portable autographic register, Egry Register Co.
HANDIROL, mending tape, Gummed Tape & Devices Co.
HANDY, bag holder and spreader, Handy Bag Holder & Spreader Co.
HANDY, button and buckle covering equipment, Handy Button Machine Co.
HANDY, flatwork ironer, American Laundry Machinery Co.
HANDY, gate valve, Lunkenheimer Co.
HANDY-ANDY, industrial trucks, Rapids-Standard Co., Inc.
HANDYPAK, day tags, Tagit Co.
HANG-A-LOX, wire hanger rack, Time Savers, Inc.
HANGER-TIES, hanger combiners, H. F. Hanscom & Co.
HANG-RITE, garment hangers, Waldorf Paper Products Co.
HARDIN, stain remover, detergent, etc., J. L. Hardin Co., Inc.
HAUSER-STANDER, wood tanks, Hauser-Stander Tank Co.
HAWKEYE, soap flakes, Iowa Soap Co.
HAYS, veriflow meter, visio-ratio gauge, Hays Corp.
HEARTH-CRETE, refractory material, Quigley Co., Inc.
HEART-OAK, leather belting, Graton & Knight Co.
HEAT-O-SEAL, thermium heat-seal labels, Tompkins' Label Service
HEDD, curtain ruffle iron, Burkstur Specialties Co.
H. E. FLUELESS, boilers, P. M. Lattner Mfg. Co.
HELE-SHAW, pumps, American Engineering Co.
HELMET, steel safety pins, Rodon Mfg. Co.
HERCULES, extractors, Haring & Stephens Co.
HERCULES CMC, sizing agent, Hercules Powder Co.
HERCULES, Stoddard solvent and 140 F dry-cleaning units, washers, Hercules Laundry Machinery Co., Inc.
HERMAN, delivery truck body, Herman Body Co.
HERO, fire extinguishers, Bostwick Laboratories
HEV-E, combination oil and gas burner, Cleaver-Brooks Co.
HEXAGON, pads, covers, Stadham Co.
HEXAMO, prespotter, Riverside Mfg. Co.
HEXITE, wetcleaning soap, Riverside Mfg. Co.
HEXOL, prespotter, Slater-Robbins Co. Inc.
HEXOLATE, alkali, soap builder, Lewis National Corp.
HI-BASEX A, zeolite, Hungerford & Terry, Inc.
HIGH FLASH SHELL-SOL, naphtha petroleum solvent, Shell Oil Co., Inc.
HIGH-SPEED, curtain drier, drying tumbler, American Laundry Machinery Co.
HI-GRADE, leather belting, cement, dressing, Cornell Belting Co.
HI-INVERSAND, zeolite, Hungerford & Terry, Inc.
HILD, rug and carpet shampooing equipment, Hild Floor Machine Co.
HILO, built low-titer soap powder, Armour & Co.
HI-LO, condensation return pump, Yeomans Bros. Co.
HILO-CHROME, chrome-base bonding mortar, Mexico Refractories Co.
HILOSET, high-temperature bonding mortar, Mexico Refractories Co.
HI-LUSTRE, for glazing fluid, Bernard Sirotta Co.
HI-SPEED, rail fittings, Time Savers, Inc.
HI-SPEED, washer, Keystone Laundry Machinery Co.
HI-SPEED, washers, Zephyr Laundry Machinery Co.
HI TEST, high-pressure welded boilers, Kewanee Boiler Corp.
HI-TEST, moth spray, Bernard Sirotta Co.
HOFFCO-VAC, portable vacuum cleaner, U. S. Hoffman Machinery Corp.
HOFFMAN, drycleaning, laundry machinery, U. S. Hoffman Machinery Corp.
HOFFMANETTE, silk finishing press, U. S. Hoffman Machinery Corp.
HOFF-MANIKIN, dress shaper, U. S. Hoffman Machinery Corp.
HOFFMATIC, automatic pressing machines, U. S. Hoffman Machinery Corp.
HOLDAPRES, trouser hanger, B & C Engineering Co.
HOLD-FAST, belt dressing, I. B. Williams & Sons
HOLTITE, collar supports, Wormstead, Smith & Loomis, Inc.
HOL-TITE, marking tags, Liberty Marking Tag Co., Inc.
HOLT WHIRLWIND, floor polishers, Holt Mfg. Co.
HOMO-FLEX, hose, belting, Raybestos-Manhattan, Inc.
HOODCLOR, bleach, Hood Chemical Co., Inc., Crescent Div.
HOOF, automobile and engine governors, Hoof Products Co.
HOOPERWOD, cotton press padding, nets, William E. Hooper & Sons
HOOSIER PEARL, corn starch, National Starch Products, Inc.
HOPE, tapes, belting, Hope Webbing Co.
HOPKINS, washing machines, tanks, Hopkins Equipment Co.
HOPKINS ATOMIZER, spotter, Hopkins Equipment Co.
HOPKINS FILTER, horizontal, bag-type filter, Hopkins Equipment Co.
HORNAC, exterior paint, A. C. Horn Co., Inc.
HORN DRI-N-TITE, roof coating, A. C. Horn Co., Inc.
HORNGLAZE, floor wax, A. C. Horn Co., Inc.
HORN NU-WAY RESURFACER, resurfacing concrete floors, A. C. Horn Co., Inc.
HORNSEAL, boiler setting, A. C. Horn Co., Inc.
HORSESHOE, shirt sorting bin, Time-Savers, Inc.
HOT-SHOT, condensation return pump, Yeomans Bros. Co.
HOTT PATCH, heat-setting high-temperature cement, Ramtite Co., Div. S. Obermayer Co.
HOYT, tumblers, Hoyt Mfg. Corp.
HUB, laundry marking tags, Boston Clip & Tag Co.
HUBER, overfeed stokers, Flynn & Emrich Co.
HUBINGER COMPOUND, corn starch, Hubinger Co.
HUDSON BLEACH, sodium hypochlorite, Kuehne Chemical Co.
HUEBSCH, tumblers, Huebsch Div., American Laundry Machinery Co.
HUMIDIGRAPH, direct-reading humidity recorder, Bristol Co.
HUNGERFORD, filters, Hungerford & Terry, Inc.
HYDRANOL, wetcleaning Celanese soap, Keystone Aniline & Chemical Co., Inc.
HYDRAULIC HANDLIFT and FOOTLIFT, trucks, Lewis-Shepard Products, Inc.
HYDRAXTOR, extractor, Zephyr Laundry Machinery Co.
HYDRAZENE, rust remover, National Cleaners Chemical Mfg. Co.
HYDREPEL, naphtha-soluble waterproofing, National Cleaners Chemical Mfg. Co.
HYDROBREAK, laundry chemical, Diamond Alkali Co.
HYDRO CLARO, bleach, Lewis National Corp.
HYDRO-KING, washer, Mid-West Laundry Machinery Mfrs.
HYDROL, spotting aids, Riverside Mfg. Co.
HYDROLATE, laundry chemical, Diamond Alkali Co.
HYDROPEL, water repellent, National Cleaners Chemical Mfg. Co.
HYDROSITE, reducing bleach, Nu-Pro Mfg. Co.
HYDROSULFITE OF SODA, stripping agent, Jacques Wolf & Co.
HYDROSULPHOSOL, ointment for burns, Rees-Davis Drugs, Inc.
HYEX, super-duty firebrick, McLeod & Henry Co., Inc.
HYFLO SUPER-CEL, filter powder, Johns-Manville
HY-GLOS, gummed, ungummed labels, Tompkins' Label Service
HYGRADE, plastic buttons, Hygrade Button & Supply Co.
HY-LO, blanket washer, American Laundry Machinery Co.
HYPAC, bleach, Lewis National Corp.
HY-SOL, soap builders, Thompson-Hayward Chemical Co.
HYSPAR, aluminum and white enamel underpaint, Midland Paint & Varnish Co.
HY-SPOT, substitute for chloroform, Slater-Robbins Co. Inc.
HYTEMPITE, high-temperature bonding mortar, Quigley Co., Inc.
HYTEXAL, built tallow soap, Allen B. Wrisley Co.
HY-V AIR JET, high-velocity concentrated cooling fan, DeBothezat Fans Div., American Machine & Metals, Inc.
HY-WHITE, soap, H. Kohnstamm & Co., Inc.
HYWHITE, blue, Speare Co.

I

I.D.N., iodine stain remover, Package Chemical Co., Inc.
IMO, rotary pump, De Laval Steam Turbine Co.
I.S., press clamp, slip chain, racks, Ink-O Products Co.
IXL, laundry soaps, Fry Bros. Co.
IDEAL, filter paste soap, National Cleaners Chemical Mfg. Co.
IDEALITE, non-glare neon-type light, Ideal Lighting Co., Inc.
IDEAL STYLE A, laundry washer, American Laundry Machinery Co.
IGEPALS, synthetic detergents, General Dyestuff Corp.
IGEPONS, synthetic detergents, General Dyestuff Corp.
IMPACTOR, valve handwheel, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
IMPERIAL, asbestos pipe covering and blocks, Ruberoid Co.
IMPERIAL, chest-type ironer, Imperial Laundry Machinery Co.
IMPREGNOLE, water repellent, Warwick Chemical Co.
IN-CEL-ATE, insulating cement, Mexico Refractories Co.
INCO, metal castings, fittings, tubings, nickel alloy fittings, castings, etc., International Nickel Co., Inc.
INCONEL, alloy of nickel and chromium, International Nickel Co., Inc.
INDEL-O-MARK, indelible automatic marking pen, Mark-O Corp.
INDIAN, laundry soap, North Coast Chemical & Soap Works
INDIVIDUAL PROCESS, ironer, Prosperity Co., Inc.
INDIVIDUAL PRODUCTION, washer, Prosperity Co., Inc.
INDUSTRIAL, cylinders, extractors, tumblers, washers, Industrial Laundry Machinery Co., Inc.
INDUSTRIAL, neutral soap chips and powder, Armour & Co.
INGERSOLL-RAND, compressors, blowers, pumps, Ingersoll-Rand Co.
INGRAINS, laundry starch, Industrial Grain Products, Ltd.
INKEX, ink remover, Patek & Co.
INKGO, liquid oxidizing agent, A. L. Wilson Chemical Co.
INK-KLEEN, indelible ink remover, Kem Laboratories
INK-O, spotting aid, Ink-O Products Co.
INNER-PACK, steel split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.
INSTANT, moth killer, Berlou Mfg. Co.
INSTITUTIONAL, starch, A. E. Staley Mfg. Co.
INSTRUCTOR, spot remover, R. B. Street & Co., Inc.
INSULAG, plastic refractory lagging and finishing material for high-temperature equipment, Quigley Co., Inc.
INSULBRIX, insulating firebrick, Quigley Co., Inc.
INSULCRETE, refractory material, Quigley Co., Inc.
INTERNATIONAL, trucks, diesel and gasoline engines, International Harvester Co.
INTEX, integral seat valves, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
INVADER, pumps, Schurmer-Dornbirer Pump Co.
INVERCARD, zeolite, Hungerford & Terry, Inc.
INVERSAND, water-softening minerals, water softeners, Hungerford & Terry, Inc.
IN-WEAVING, reweaving, In-Weaving Co. of America
IODASE, iodine stain remover, Greenville Chemical Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

IRON CITY, duck cover, Pittsburgh Waterproof Co.
IRON FIREMAN, stokers, gas and oil burners, Iron Fireman Mfg. Co.
IRON HORSE, metalware, Rochester Can Co.
IRONOIL, ironing surface lubricant, Patek & Co.
IRON OILITE, machine parts lubricating bearings, Amplex Div., Chrysler Corp.
IRON-RITE, metallic flatwork ironer pads, Fulto Corp.
IROQUOIS, safety pins, Risdon Mfg. Co.
IROQUOIS, soap, Lewis National Corp.
IROX, iron-oxide-zinc chromate paint, Subox, Inc.
ISOCLOR, powdered bleach, Carman & Co., Inc.
ISOGRAPH, stencil ink, Carman & Co., Inc.
ISOMODE, vibration absorber pads, press shock absorber units, M. B. Mfg. Co., Inc.
ISOTABS, tablet-form laundry blue, Carman & Co., Inc.
IVORY, soaps, chips, powder, Procter & Gamble Distributing Co.

J

J.F.S., variable speed reducers, Stephens-Adamson Mfg. Co.
J-M, packings, gaskets, Johns-Manville
J-P-S, drycleaning soap, R. R. Street & Co., Inc.
JANET, steam necktie presses, glove forms, Shedlov-Heinz Mfg. Co.
JAY BEE, super-duty firebrick, Mexico Refractories Co.
JAY-DEE, fur stretcher and softener, mothproofing liquid, Jay-Dee, Inc., Mfg. Chemists
JEFFERSON ISLAND, salt, Jefferson Island Salt Co., Inc.
JETVEYOR, steam jet ash conveyor, Brady Conveyors Corp.
JIFFY, blanket washer, Abe Cohen & Son
JIFFY, cuff brusher, bagging devices, Medalie Mfg. Co.
JIFFY, puff irons, Columbia Laundry Machinery Co.
JIFFY, sock turner, Time Savers, Inc.
JIFFY SORTERS, sorting books with clip attached, Frank R. Smith Co.
JIFFY-STICK, ink remover, National Cleaners Chemical Mfg. Co.
JOHNSON, flexible metal hose, Johnson Metal Hose, Inc.
JOHNSON, ironer oil, liquid stripper, Johnson Chemical Industries, Inc.
JOHNSON, rotary pressure joints, steam water heater, compressed-air separators, compressed-air aftercoolers, high-temperature boiler feed system, solenoid valves, automatic boiler water controls, Johnson Corp.
JOMAC, scorch-resistant fabric, C. Walker Jones Co.
JUMBO, metallic wool padding, International Steel Wool Corp.
JUMBO, net pins, Risdon Mfg. Co.
JUNIOR, extractor, Fletcher Works, Inc.
JUNIOR CHALLENGER, washer, Miller Laundry Machinery Co.
JUNIOR KING, net pins, Keyes-Davis Co.

K

K.A.T., water conditioner, American K.A.T. Corp.
K.B., soap powder, Kliegman Bros., Inc.
K-B-1, break powder, Laundry Chemicals Co.
K-D, nets, marking pins, Keyes-Davis Co.
KMS, mothproofing agent, Kinford Co.
K.O.P., coco-potash soap, Armour & Co.
K & T, valves, Klipfel Mfg. Co.
K-V, heavy fluid lubricant, Keystone Lubricating Co.
KALITE, calcium carbonate, Diamond Alkali Co.
KAME-n-KLEEN, soap powder, Kamen Soap Products Co., Inc.
KAMENOL D, synthetic detergent, Kamen Soap Products Co., Inc.
KAMENOL M, powdered laundry soap, Kamen Soap Products Co., Inc.
KAMENOL 92, soap flakes, Kamen Soap Products Co., Inc.
KAMENOL 60, soap beads, Kamen Soap Products Co., Inc.
KAMEX R, vegetable powdered low-titer soap, Kamen Soap Products Co., Inc.
KANE, gas-fired steam boilers, Mears-Kane-Offeldt, Inc.
KANTARK, non-renewable fuses, Trico Fuse Mfg. Co.
KANT FALL, spur rolls to attach to rug beater, Moore's Time Saving Equipment Co.
KARAGAMI, powdered wax, refined wax, Concord Chemical Co.
KARCO-KING, aluminum-alloy van panel truck bodies, J. B. E. Olson Corp.
KARPET-KARE, carpet cleaner, Bigelow-Sanford Carpet Co.
KARRICK, laundry detergents, Karrick Co.
KATOLIGHT, generators, light plants, Kato Engineering Co.
KATR FURS, fur repair, remodeling, purchasing service, David G. Kaplan's Drycleaner's Service
KAY, concentrated mothproofer, Kinford Co.
KAY-BEE, cover cloth, Kliegman Bros., Inc.
k-B1, break alkali, Laundry Chemicals Co.
K-BRITE, drycleaning soap, H. Krevit & Co., Inc.
KECKLEY, steam and liquid control equipment, O. C. Keckley Co.
KEEDOL, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
KEELER CP, boilers, E. Keeler Co.
KEE-STAR, corn starch, Keever Starch Co.
KEEVER, rug and carpet size, Keever Starch Co.
KEEVER CLEANER, cleaner for metal sleeve form and press, Keever Starch Co.
KEKO, moth-repellent garment storage bags, Kennedy Car Liner & Bag Co.
KELCO, cutting oil, Keystone Lubricating Co.
KELITE, laundry and boiler compounds, Kelite Products, Inc.
KELLEY, heat reclaimers, hot-water heaters, storage heaters, Patterson-Kelley Co., Inc.
KELLOGG-AMERICAN, air compressors, paint spray equipment, exhaust fans, American Brake Shoe Co., Kellogg Div.
KELMAKER, pressure filters, vacuum traps, sight-glass assemblies, Kelmaker Mfg. Co.
KEM-BLU, liquid blue, Kem Laboratories
KEMINATE, synthetic detergent, Kem Laboratories
KEMITE, sour, Kem Laboratories
KEMLEK, drycleaning detergent, Kemlek Corp., Div. Tobin-Halpert, Inc.
KEMO, alkali compounds, Kem Laboratories
KEM PRO, cover cloths, Whitehouse Products, Inc.
KEMWASH, laundry liquid detergent, Kemlek Corp., Div. Tobin-Halpert, Inc.
KEN DDZ, synthetic drycleaning machine, John W. Young
KENNEDY, paper bags, Kennedy Car Liner & Bag Co.
KENNEY, water softeners, filters, zeolite, Kenney Softener & Filter Co.
KENTUCKY, trucks, dollies, hampers, boxes, Kentucky Box & Truck Co.
KEWANEE, heating boilers, power boilers, storage water heaters, steel tanks, water heating garbage burners, Kewanee Boiler Corp.
KEY-LOK, brake blocks, Raybestos-Manhattan, Inc.
KEYLUBRIC, air tool lubricant, Keystone Lubricating Co.
KEYSO, drycleaning soap, G & G Chemical Co.
KEYSTONE, alkalis, Swift & Co.
KEYSTONE, extractors, Keystone Laundry Machinery Co.
KEYSTONE, hat sizing, Keystone Aniline & Chemical Co., Inc.
KEYSTONE, leather soap and liquid glove soap, nail polish remover, white kid glove bleach, Keystone Aniline & Chemical Co., Inc.
KEYSTONE, steam generator, Erie City Iron Works
KEYSTONE, water heaters, Crane Co.
KEYSTONE, wax spot remover, Keystone Lubricating Co.
KEY-TAG, automatic mechanical identification system, Key-Tag Checking System Co.
KEY-TEX, filter soap, G & G Chemical Co.
KEYTEX, CONC, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
K-555, low-temperature soap powder, Laundry Chemicals Co.
K411, boiler stew, to remove scale deposit, National Chemical Sales Co., Laboratory, Inc.
KIDDE, fire extinguishers, Walter Kidde & Co., Inc.
KIDDYKOLOR, garment bags, Kennedy Car Liner & Bag Co., Inc.
KILLARNEY, laundry blue, Patek & Co.
KILLFYR, automatic fire extinguisher, General Machine Supply Co.
KIL-ODE, deodorant, Warco Laboratories
KING-CLIP, gate valve, Lunkenheimer Co.
KIRK'S, spray guns, formers, finishers, Kirk's Leather Cleaners
KISCO, boiler room equipment, Kisco Boiler & Engineering Co.
KLAMP-ON, pin sets, Moore's Time-Saving Equipment, Inc.
KLEANWELL, oil soap, Minnesota Chemical Co.
KLEENAP, rug detergent, H. Kohnstamm & Co., Inc.
KLEENFLO, activated sweetener, L. A. Salomon & Bro.
KLEENHAMPER, portable laundry and drycleaning drop box, Nevinger Mfg. Co.
KLEEN-RITE, coconut-oil soap, National Cleaners Chemical Mfg. Co.
KLEEN SHEEN, paste rug soap, Adco, Inc.
KLEEN SUDS, soap, Lewis National Corp.
KLEERITE, indelible inks, American Writing Ink Co., Inc.
KLEERVU, safety eye guard, gauge-glass protector, Wright-Austin Co.
KLEER-VUE, window paper garment bag, Schor Paper Co.
KLENEASE, wetcleaning soap, Caled Products Co., Inc.
KLERA CID, laundry sour, Wyandotte Chemicals Corp.
KLEX, pumice soap, Colgate-Palmolive-Peet Co.
KLIEGBILT, alkali, break powder, Kliegman Bros., Inc.
KLIEGSPUN, nets, cover cloth, Kliegman Bros., Inc.
KLIEGWEAVE, nets, Kliegman Bros., Inc.
KLIPLOK, clamps for fuse clips, test clamps, Trico Fuse Mfg. Co.
KLIP-ZIT, diner clips, Time Savers, Inc.
K-LIQUID SOAP, liquid soap, Laundry Chemicals Co.
KLIX, paint remover, Nu-Pro Mfg. Co.
KLORGENT, synthetic soap, G & G Chemical Co.
KLOR-LENE, spotting solution with chloroform action, Davies-Young Soap Co.
KLORO, liquid detergent for use with synthetic solvent units, Adco, Inc.
K-MASTER, filters, traps, pressure-regulating valves, Kaye & MacDonald, Inc.
K-MONEL, heat-treating alloy, International Nickel Co., Inc.
KNIGHT-WARE, acid-proof chemical stoneware, Maurice A. Knight
KNITTED PADDING, press pads, Knitted Padding Co.
KNOTLOCK, laundry nets, New York Net Co.
KOKO, liquid wetcleaning soap, Adco, Inc.
KOKOWET, wetcleaning soap, Stadham Co., Inc.
KOLD, sour, Minnesota Chemical Co.
KOLITE, cold-water built soap, John T. Stanley Co., Inc.
KOL MASTER, stokers, Kol Master Corp.
KOLSTRIP, cold-water liquid color stripper, Washine National Sands, Inc.
KOLURGO, hot-water liquid color stripper, Washine National Sands, Inc.
KOMO, blues, ironer oil, Minnesota Chemical Co.
KOMONOL, organic detergent, Minnesota Chemical Co.
K-1, wetcleaning soap, Northeastern Soap & Chemical Co.
K-121-B, break powder, Laundry Chemicals Co.
K-122, soap builder, Laundry Chemicals Co.
KOOLER-KOTE, aluminum roof coating, Midland Paint & Varnish Co.
KORO, filter detergent, Nu-Pro Mfg. Co.
KOROLA, French-cuff fastener, Boston Clip & Tag Co.
KOSMETEX, spotter for cosmetic stains and liquors, Patex & Co.
KOVERLOX, file fasteners, Speed Products Co., Inc.
KOYLON, foam pressing pads, U. S. Rubber Co., Koylon Div.
KRAN-MER, dyeing, Kran-Mer Corp.
KROMOAK, leather and waterproof leather belting, Charlotte Leather Belting Co.
KROMOTAN, leather and waterproof leather belting, Charlotte Leather Belting Co.
K-SOLVENT, detergent for industrial wetwash, Laundry Chemicals Co.
K-333, built soap powder, Laundry Chemicals Co.
KUFTACKER, stapler for trouser cuffs, Bostitch, Inc.
KUNKLE, safety and relief valves, Kunkle Valve Co.
KURB-SIDE, motor truck bodies, J. B. E. Olson Corp.
KWICK, fluorescent bleach, Eaton Chemical & Dyestuff Co.
KWIK CHANGE, cover and iron springs, Time Savers, Inc.
KWIK KOVER, hanger shields, Kwik Kover Sales Co.
KWIK ON, rug stretching bars, Moore's Time-Saving Equipment Inc.
KWIK-SET, bag and net holders, Time Savers, Inc.
KWIK SUDS, laundry soap, Kem Laboratories
KWIK TAG, marking tags, Kwik Kover Sales Co.
KWIX SET, washing-machine timer, H. C. Thompson Clock Co.
KWK VOLCLAY, bentonite clay, American Colloid Co.

L

L. M. C., pumps, Lubbock Machine Co., Inc.
L-N, sour, tags, Lewis National Corp.
L.S.R., lipstick remover, Murphy Sales Co.
LACLEDE, grates, stokers, Laclede Stoker Co.
LACQUERSOL, spotting agent, Nu-Pro Mfg. Co.
LA FRANCE, pumps, American-La France-Foamite Corp.
LAIDLAW, hangers, W. A. Laidlaw Wire Co.
LALLY, pillow supplies, R. Lally Co.
LAMTEX, floor mats, press pads, Burgess-Berliner Associates
LANATEX, sponge press pads, rubber floor mats, Pittsburgh Tag Co.
LANATEX, controlled alkaline detergent for fugitives, Carman & Co., Inc.
LANATEX C, alkaline detergent for carpets and rugs, Carman & Co., Inc.
LANE, baskets, trucks, hampers, W. T. Lane & Bros., Inc.
LANI-TEX, press pads, floor mats, Pittsburgh Tag Co.
LAPELETTES, lapel protectors, M. H. Gronauer Co.
LARTON, assembly hooks, sorters, Larton Products Co., Inc.
LATCO, boilers, P. M. Lattner Mfg. Co.
LATHERINE, rug cleaner, Continental Car-Na-Var Corp.
LATTNER, boiler feed pumps and return systems, P. M. Lattner Mfg. Co.
LAUNDERITE, laundry starch, Clinton Foods, Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

LAUNDERLOG, recording washwheel thermometer, water level recorder, Foxboro Co.
LAUNDRO-PAD, pre-cut pad for laundry presses, Arrow Mfg. Co.
LAUNDRY COMPOUND, soap builder, Solvay Sales Div., Allied Chemical & Dye Corp.
LAUNDRY SOUR, acid material for neutralizing, Turco Products, Inc.
LAUSO, medium pH built soap, E. F. Drew & Co., Inc.
LAUREL, rubber markers, Laurel Co.
LAVEKOL, spot washing, General Dyestuff Corp.
LAVEL APPARATUS, process for bleach, Wallace & Tiernan Products, Inc.
LAVINX, machinery enamel, Pittsburgh Plate Glass Co., Paint Div.
LAWSON, pulleys, hand trucks, wheels, casters, Menasha Wood Split Pulley Co.
LAYCO, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
LAYNE, vertical turbine pumps, water well screens, Layne & Bowler, Inc.
LAYTITE, floor coating, Steelcote Mfg. Co.
LE ANN, fur repair and remodeling services, Le Ann Fine Furs
LEATHERFAST, suede leather dye, Keystone Aniline & Chemical Co., Inc.
LEATHER-LIFE, leather dressing, Nycco Products Co.
LEATHER-LUSTRE, smooth-leather colors, Keystone Aniline & Chemical Co., Inc.
LEATHER SOAP, leather cleaning and glove soap, Spix Products Co.
LECTROLIER, fans, Sun Fluorescent Electric Co.
LED-PLATE, thread and gasket paste, Armite Laboratories
LEEBAW, counter conveyor, industrial trucks, Leebaw Mfg. Co.
LEEF, flexible forms, Leef Bros., Inc.
LEFFEL, automatic underfeed stokers, steam boilers, James Leffel & Co.
LENACO, baskets, bleaches, blues, ink, ironer oil pads, flannels, press covers, cement, Lewis National Corp.
LENACO NO-SNAG, tumbler pads, Lewis National Corp.
LENASOL, disinfectant, Lewis National Corp.
LENDLE, overcoat shaper, U. S. Hoffman Machinery Corp.
LEONARD, manually operated drycleaning press, Leonard Pressing Machine Co.
LESLIE, controls and regulators, pumps, valves, Leslie Co.
LESLIE-TYFON, whistles, horns, signals, Leslie Co.
LESO, leather soap, Nu-Pro Mfg. Co.
LESTOIL, liquid synthetic detergent, Adell Chemical Co.
LETHALAIRE R-10, insecticide, Virginia Smelting Co.
LETHALAIRE V-20, insecticide, Virginia Smelting Co.
LETHOL MOTH FUMIGANT, insecticide, Mortemoth Chemical Laboratories
LEVELENE, textile dyeing assistants, American Aniline Products, Inc.
LEVELENE FGD, color-setting liquid, American Aniline Products, Inc.
LEVELOL, stripper, Eaton Chemical & Dyestuff Co.
LEVELOMETER, gauges, Liquidometer Corp.
LEVELON, blue, H. Kohnstamm & Co., Inc.
LEVELON, moisture leveler and neutral spotting base, National Cleaners Chemical Mfg. Co.
LEWIS, baskets, trucks, G. B. Lewis Co.
LEWIS, rug binding machines, Lewis Invisible Stitch Machine Co.
L-4008, laundry starch, Clinton Foods, Inc.
LIFE, sizings, Life Products Co.
LIFE FOR FABRICS, water repellent and fabric conditioner, Franklin Research Co.
LIFETIME MOTHPROOFING, moth repellent, Silver Mothproof Co.
LIFETIME WALL, suspended boiler wall, George P. Reintjes
LIGHTNING, drycleaning, fur and upholstery cleaning compounds, Mortemoth Chemical Laboratories
LIGHTNING, water-repellent dip tank, Hopkins Equipment Co.
LIME-SOLV, calcium solvent, H. Kohnstamm & Co., Inc.
LINCOLN, rug and carpet redyeing, Lincoln-Hudson Rug Dyers, Inc.
LINEX, synthetic wetcleaning soap, Allen & Vickers, Inc.
LINK-BELT, chains, conveyors, stokers, power transmission machinery, Link-Belt Co.
LINN, special bodies, delivery trucks, Linn Coach & Truck Div., Great American Industries, Inc.
LION-BILT, work uniforms, Lion Uniform Co.
LIP-I-CATER, lipstick and lacquer remover, W. F. Johnson Products Co.
LIPOFF, cleaning compounds, Mortemoth Chemical Laboratories
LIPSTICK-MUV, lipstick remover, Package Chemical Co., Inc.
LIQUA-BREAK, washroom detergent, Davies-Young Soap Co.
LIQUID BLUE, blue, Diamond Alkali Co.
LIQUID BLUE, blue, H. Kohnstamm & Co., Inc.
LIQUID DRICLENE, drycleaning detergent, Armour & Co.
LIQUID MORTEMOTH, insecticide, Mortemoth Chemical Laboratories
LIQUIDOMETER, gauges, Liquidometer Corp.
LIQUIVATOR, condensate return system, Morehead Mfg. Co.
LIQUON, water-softening equipment, Liquid Conditioning Corp.
LIQUONEX, water-treatment chemical, zeolites, Liquid Conditioning Corp.
LISTMAKER, listing machines, National Marking Machine Co.
LITTLE CHIEF, pumps, Fairbanks Morse & Co.
LITTLE GIANT, cuff and pocket cleaner, Little Giant Specialties
LITTLE GIANT, synthetic cleaning unit, West Coast Laundry Machinery Co.
LITTLE GIANT, water spray gun, Stebbins Mfg. & Supply Co.
LITTLE SCOTCHMAN, Scotch marine boilers, U. S. Hoffman Machinery Corp.
LITTLE WARRIOR, metal washer, Illinois Laundry Machinery Mfg. Co.
LITTLE WONDER, electric whiskbrush, American Pressboard Co., Inc.
LIVE OAK, leather transmission belting, Eagle Belting & Leather Co.
LIXATE, rock-salt dissolver, International Salt Co., Inc.
L. N. 4, spotter and stripper, Lewis National Corp.
LOCK END, trouser guards, necktie forms, Paulin Products Co.
LOEBL, garment, rug dyeing, Loebl Dye Works, Inc.
LO-FRONT, washer, U. S. Hoffman Machinery Corp.
LOGIK, soap builder, Minnesota Chemical Co.
LO-HED, hoists, car pullers, American Engineering Co.
LOK-TITE, marking tags, Liberty Marking Tag Co., Inc.
LO-MAINTENANCE, electric motors, Allis-Chalmers Mfg. Co.
LONGBOY, laundry net, Carson Textile Co., Inc.
LONGLIFE, ironer aprons, ironer ribbons, Tingue, Brown & Co.
LOOKOUT, boilers, Lookout Boiler & Mfg. Co.
LOSET, stokers, Canton Stoker Corp.
LOSTOKER, boiler stoker, Detroit Stoker Co.
LOT SYSTEM TAG-O-MATIC, marking machine for lot system identification, Textile Marking Machine Co., Inc.
LOUDEN, conveyors, cranes, hoists, Louden Machinery Co.
LOW FRONT, washers, Zephyr Laundry Machinery Co.
LOX-IN, collar supports, Time Savers, Inc.
LOYAL, automatic starcher, Armstrong Machinery Co.
LOYAL, pressing machines, vacuum systems, starching machines, Loyal Textile Machinery Corp.
LT 60, built red oil soap, Allen B. Wrisley Co.
LUBEFLEX, starch aid lubricant, Hood Chemical Co., Inc., Crescent Div.
LUB-N-WAX, wax, Speare Co.
LUBRI-KLEEN, lubricating agent for ironers and presses, Paper Chemicals Co.
LUCIDE A-20, waterproof insecticide, Pest Control Equipment Co.
LUPOGUM, size, Jacques Wolf & Co.
LUPOSEC, waterproofing agent, Jacques Wolf & Co.
LUSTERETTE, portable fur ironing and glazing machine, Reliable Fur Storage Equipment Co., Div. Deliable Machine Works, Inc.
LUSTER-ON, fur glaze, Nycco Products Co.
LUSTERSUDS, soap, H. Kohnstamm & Co., Inc.
LUSTERWAY, drycleaning system for franchise basis, McCleary Associates, Inc., and/or Root & Co.
LUSTERWAY COMPOUND, fur cleaning sawdust, Root & Co.
LUSTERWAY FORMULA, fur conditioner and glaze, Root & Co.
LUSTERWAY SOLVENT, fur cleaning solvent, Root & Co.
LUSTRALL, liquid synthetic cleaner, National Cleaners Chemical Mfg. Co.
LUSTRLUX, synthetic solvent drycleaning machine, Butler Mfg. Co.
LUSTRO-KLEEN, liquid wetcleaning soap, Slater-Robbins Co. Inc.
LUXOL, starch lubricant, E. F. Drew & Co., Inc.
LUXOR PLASTIC, transparent garment bags, Rassenfoss Bag Co., Inc.

Mc

McDONNELL, boiler water level control, McDonnell & Miller, Inc.
McDONNELL & MILLER, water controls, McDonnell & Miller, Inc.
McELMOYL, canvas baskets, canvas shipping hampers, canvas basket trucks, M. J. McElmoyl Co.
McKEE-ECLIPSE, blowers, boiler feed and return systems, gas burners, controls, Eclipse Fuel Engineering Co.

M

M-K-O, automatic boiler feed systems, Mears-Kane-Ofeldt, Inc.
M. L. B., waterproof cemented leather belting and dressing, Milwaukee Leather Belting Co.
M&M, boilers, level controls, McDonnell & Miller, Inc.
M. S. A., aprons, first-aid equipment, safety equipment, salt tablets and dispensers, Mine Safety Appliance Co.
MACBETH DAYLIGHTS, color matching and daylight lamps, Macbeth Corp.
MACBETH pH METERS, control equipment, indicators, test kits, Macbeth Corp.
MACHETA AIRFOIL, industrial ventilating fans, Aerovent Fan Co.
MACKS AUTOMATIC SORTER, laundry sorting machine, Triple "M" Inc.
MAFORCO, fur storage equipment, racks, Market Forge Co.
MAGIC, double collar support, J. W. Steele & Co.
MAGIC, rug measuring table, Moore's Time-Saving Equipment Co.
MAGIC INKSTICK, ink eradicator, Nu-Pro Mfg. Co.
MAGIC-SEAL, shirt bands, Century Paper Products
MAGLA SILVER, cover cloth, Magla Products
MAGNESOL, adsorptive filter powder, Westvaco Chemical Div., Food Machinery & Chemical Corp.
MAGNETROL, liquid level controllers, Fred H. Schaub Engineering Co., Inc.
MAGNETTE, circuit breakers, Heinemann Electric Co.
MAGNISET, a type of free vane air-operated controller, Bristol Co.
MAGNUS, cleaning materials, Magnus Chemical Co., Inc.
MAINTENEX, cleaning compound, A. C. Horn Co., Inc.
MAJESTIC, drycleaning units, Indiana Mfg. Co., Inc.
MAJESTIC, steel steam boilers, Ames Iron Works
MAMMOTH CASCADE, laundry washer, American Laundry Machinery Co.
MANHATTAN, belt hose, tank lining, Raybestos-Manhattan, Inc.
MANISOLV, prespotter, Merson Products Co.
MANITOWOC, drycleaning tumbler and unit, Manitowoc Mfg. Div., Manitowoc Shipbuilding Co.
MARATHON, ironer tape and feed ribbons, asbestos ironer covers and pads, black nylon cloth, Benwall Mfg. Co., Inc.
MARCLENE, detergent, Martin Equipment Corp.
MARCO, hot-water heaters, storage heaters, feedwater heaters, oil separators, Marshall Heater Co.
MARCO, racks, lighting fixtures, Cleaners Sales & Equipment Corp.
MARIONETTE, shirt bands, Marion Mfg. Co.
MARKOGRAPH, marking machines, marking ink, George Steigler Co.
MARK-O-INK, indelible marking ink, Mark-O Corp.
MARP-O-PEN, indelible marking pen, Mark-O Corp.
MARK RITE, tags, Lewis National Corp.
MARLEX, corrosion inhibitor, Carbide & Carbon Chemicals Corp., Unit of Union Carbon & Carbide Corp.
MAR-MAK, rug drycleaning machine, Mar-Mak Rug Dry Cleaning Machinery Co.
MARMON-HERRINGTON, all wheel drive truck, Marmon-Herrington Co., Inc.
MAROSAL, rinsing aid, Minnesota Chemical Co., Inc.
MARSH, valves, Jas. P. Marsh Corp.
MARTEX, non-slip composition flooring, treads, American Abrasive Metals Co.
MARTINIZING, drycleaning system, Martin Equipment Corp.
MARVEL, cotton padding, canvas cement, Pittsburgh Waterproof Co.
MARVEL, ink remover, Keystone Aniline & Chemical Co., Inc.
MARVEL, laundry, drycleaning equipment, Marvel Mfg. Co.
MARVEL, marking machine, foot-powered staplers, indelible marking ink, Marvel Marking Machine Co.
MARVELCLEEN, synthetic drycleaning soap, Trico Chemical Div., Tri-State Equipment Co.
MARVESO, drycleaning soap, Nu-Pro Mfg. Co.
MASONEILAN, steam plant equipment, Masoneilan Regulator Co.
MASS PRODUCTION CURTAIN DRYER, 3-way curtain drier, National Dryer Mfg. Co.
MASTER, drying tumblers, Hammond Laundry-Cleaning Machinery Co.
MASTER, glove cleaning soap, Keystone Aniline & Chemical Co., Inc.
MASTER, lint brush, Master Products Co.
MASTER, presses, laundry and drycleaning equipment, Master Machinery Co.
MASTER, soaps, Lasco Supply Co.
MASTER, valves, W. M. Chace Co.
MASTER-BILT, washers, B & G Machinery Co., Inc.
MASTER BRAND, hatters' equipment, supplies, Marant Button & Supply Co.
MASTER CASCADE, laundry washer, American Laundry Machinery Co.
MASTER CHALLENGER, washer, Miller Laundry Machinery Co.
MASTER CONTROL UNIT, steam system, Velocity Steam Production Engineering, Inc.
MASTER DRY CLEANSER, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.
MASTER KING, net pins, Keyes-Davis Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

MASTER SELF-SEAL, shut bands for advertising messages, Package Masters, Inc.
MASTER SLEEVER, sleeve finisher, Forse Equipment Co.
MATCHLESS, flatwork ironers, Prosperity Co., Inc.
MATCHLESS, monorail trolley, Chisholm-Moore Hoist Corp.
MATEER, extractors, Western Laundry Machinery Co.
MECLASOL, washroom detergent, Carlton Chemical Co., Inc.
MECOLOID, colloidal clay compound, H. Kohnstamm & Co., Inc.
MEHL, transparent bags, Mehl Mfg. Co.
MEMO TAGS, pre-printed instruction tag, Larton Products Co., Inc.
MENDEX, tabs and tapes for repairing, marking, Mendex Corp.
MEND-MASTER, machines for applying tapes or tabs, Mendex Corp.
MENTOR BEADS, synthetic detergent, Colgate-Palmolive-Peet Co.
MERASOL, drycleaning soap, R. R. Street & Co., Inc.
MERCO-BRITE, fluorescent dye, Merchants Chemical Co.
MERCURY, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
MERCURY, soaps, detergents, Theobald Industries
MERCURY, synthetic cleaning systems, filters, tumblers, Mercury Cleaning Systems, Inc.
MERSON, soaps, strippers, Merson Products Co.
MERTEX, drycleaning soap, Merson Products Co.
METALASTIC, packings, Metalastic Mfg. Corp.
METALATE, laundry chemical, Diamond Alkali Co.
METEOR, electric hoist, Chisholm-Moore Hoist Corp.
METRO, delivery truck bodies for light, bulky loads, Metropolitan Body Co., Inc.
METSO, detergents, Philadelphia Quartz Co.
METSO 88, rug cleaner, Philadelphia Quartz Co.
METSO 55, silicate-type cleaner, Philadelphia Quartz Co.
METSO GRANULAR, sodium metasilicate, Philadelphia Quartz Co.
METSO 99, sodium sesquisilicate, Philadelphia Quartz Co.
METTLER, gas and oil burners, Lee B. Mettler Co.
MEX-R-CO, air and heat setting bonding mortar, Mexico Refractories Co.
MICRO-KLEAN, filter, Cuno Engineering Corp.
MICROMET, rust and corrosion preventative, Calgon, Inc.
MIDCO, flameproofing agent, Merson Products Co.
MIDGET, controls, Morehead Mfg. Co.
MIDGET KING, marking pins, Keyes-Davis Co.
MIDGET-MATIC, laundry washers, Hammond Laundry-Cleaning Machinery Co.
MIDGET PERFECTION MARKER, marking machine, Perfection Marking Machine Co.
MIDOFORM, all-around spotter, Merson Products Co.
MIDWEST, stainless steel washer, Mid-West Laundry Machinery Mfrs.
MIF, pipe fittings, Malleable Iron Fittings Co.
MILCO, rug beaters, driers, upholstery, shampooing machine, A. O. Miller & Co.
MILDEW-CHEK, mildew preventative, Chek Products, Inc.
MILDEX, mildewicide, Patek & Co.
MILDUSIZE, drycleaning mildew preventative, Cidex Corp.
MILLER, laundry washers, Miller Laundry Machinery Co.
MILLER, lighting fixtures, Miller Co.
MILLICAL, calcium carbonate, Diamond Alkali Co.
MILNOR, laundry, drycleaning extractors, washers, Pellerin Milnor Corp.
MILO, drycleaning paste soap, R. R. Street & Co., Inc.
MINCO, sours, Minnesota Chemical Co.
MINIATURE SLEEVERS, sleeve formers, Wichita Precision Tool Co., Inc.
MIN-IT-SOL, drycleaning soap, Murphy Sales Co.
MINUTE MAN, extractor, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
MINUTE MAN, JR., tumblers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
MIRZA, rug cleaning system and machine, rug duster, rug dryroom conveyor, rug drying unit, rug wringer, American Laundry Machinery Co.
MITCO, drycleaning washer, tumblers, J. B. Mitchell Co.
MIZON, rug cleaning detergent, Fumol Corp.
MKAYO, boilers for oil firing, Mears-Kane-Ofeldt, Inc.
MOBILE HAMPER, clothes cart, R. B. Smith Co.
MOBILMARKR, storage bin, marking hopper and marking table, G. H. Bishop Co.
MOCCO, drycleaning soap, Package Chemical Co., Inc.
MODEL GT, friction clutches, T. B. Wood's Sons Co.
MODINE, unit heaters, coolers, Modine Mfg. Co.
MOELLER, gauges, pyrometers, recorders, thermometers, Moeller Instrument Co.
MOHAWK, padding, Egan Cotton Mills
MOHAWK, power-driven scraper for removing soot from inside boiler tubes, Brunt Mfg. Co.
MOHAWK, tallow soap chips and powder, Swift & Co.
MOHAWK, tire recapping stock, tire repair materials, Mohawk Rubber Co.
MOLAFORM, stain remover, Package Chemical Co., Inc.
MONAD G, neutral synthetic detergent, Colgate-Palmolive-Peet Co.
MONARCH, synthetic solvent drycleaning machine, Detrex Corp.
MONARCH, washer, American Laundry Machinery Co.
MONARCH, wire staples, Vail Mfg. Co.
MONEL, alloy of nickel and copper, International Nickel Co.
MONELLO, Monel pads for overall presses, Resillo Co.
MONEX, extractor, American Laundry Machinery Co.
MONITE, insured mothproofing, Monite Co., Inc.
MONOBLOC, close-coupled centrifugal pumps, Worthington Pump & Machinery Corp.
MONO-FABRIK, plastic firebrick, Mexico Refractories Co.
MONO-LINE, plastic firebrick, Quigley Co., Inc.
MONOPOLE OIL, for dyeing and finishing, Jacques Wolf & Co.
MONOWASH, package laundry unit, U. S. Hoffman Machinery Corp.
MONTFELIER, truck bodies for laundry and linen supply delivery, Montpelier Mfg. Co.
MOORE, autographic register, Moore Business Forms, Inc.
MOORE, trolley conveyor, Chisholm-Moore Hoist Corp.
MOORES OCTOCLENE, rug cleanser, Moore's Time Saving Equipment Co.
MORE-DRAIN, channel roofing, Berger Mfg. Div., Republic Steel Corp.
MO-REX, dry press firebrick, Mexico Refractories Co.
MORHEAT, boiler and steam generators, hot water systems, Morheat Sales Co.
MORLEX, corrosion inhibitor for boiler water and steam, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
MOROCCO, rug sizings, National Starch Products, Inc.
MORSE, drum plug wrench, drum dispensing racks, bottle tippers, drum hand trucks, Morse Mfg. Co., Inc.
MORTEMOTH, triple-strength crystal and spray insecticide, Mortemoth Chemical Laboratories
MOTH-ASEPTIC, mothproofing germicide, Perm-Aseptic Corp.
MOTH-CHEK, mothproofing agent, Chek Products, Inc.
MOTHPROOFITE, insecticide, mothproofing concentrate, Mortemoth Chemical Laboratories
MOTHPRUF-D, mothproofer, Atlantic Stainpruf Co., Inc.
MOTH-SAN, mothproofing agent, Huntington Laboratories, Inc.
MOTH SEAL, storage bags, Lincoln Bag Co., Inc.
MOTH SECTOL, dual-action moth spray, Fumol Corp.
MOTOPUMP, water supply pump, Yeomans Bros. Co.
MOTO-RACK, garment carrier, G. H. Bishop Co.
MOTOR PUMP, solvent and water pump, Ingersoll-Rand Co.
M. P. 189, wetting and dispersing agent, Lewis National Corp.
M-26 and M-22, insulating firebrick, Mexico Refractories Co.
MULSOLITE, lubricant, spotter, penetrant, R. R. Street & Co., Inc.
MULSOL-K, overall cleaner, Laundry Chemicals Co.
MULTI-CLEAN, rug scrubbing equipment, rug and upholstery shampoo, Multi-Clean Products, Inc.
MULTI-CUSHION, felt padding, Pittsburgh Waterproof Co.
MULTIFLEX, calcium carbonate, Diamond Alkali Co.
MULTIGRAPH, hand-operated duplicating machine, Addressograph-Multigraph Corp.
MULTITHERM, air-conditioning units, Clarage Fan Company
MULTI-V DRIVE, V-belt drives and sheaves, Worthington Pump & Machinery Corp.
MUND'S, inclined water tube boiler, Mund Boilers, Inc.
MURCO, unit heaters, D. J. Murray Mfg. Co.
MUROZA, feather cleaning and sterilizing system, American Laundry Machinery Co.
MW 50, asbestos furnace cement, Philip Carey Mfg. Co.
MYRO, water softeners, Hungerford & Terry, Inc.
MYSTRON, drycleaning unit, U. S. Hoffman Machinery Corp.

N

N-C, staples, Neva-Clog Products, Inc.
N.C.S., drycleaning soap, National Cleaners Chemical Mfg. Co.
N-L, plastic impregnated tags, ink, Wm. J. Nicholson Laboratories
N-M-D, angle and globe valve, Lunkenheimer Co.
N. P., stain remover, NuPro Mfg. Co.
N-R-G, enzymic digester, George E. Mead Co.
NACCONOL, synthetic organic detergent, National Aniline Division, Allied Chemical & Dye Corp.
NAIROIL, small oil burners, National Airoil Burner Co., Inc.
NALCO, heating units for driers, North American Electric Lamp Co.
NALCO, water-treatment chemicals, National Aluminate Corp.
NALCOMETER, water-testing device, National Aluminate Corp.
NALOX, nail polish remover, Warco Laboratories
NAMICO, alkali compounds, laundry silk and woolen soap, National Milling & Chemical Co.
NAPOLENE PASTE FILTER SOAP, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
NAPSEPTIC, sour, E. F. Drew & Co., Inc.
NAPSOAP 40, 60, laundry soaps, E. F. Drew & Co., Inc.
NAPSOID, alkali compound, special detergents, E. F. Drew & Co., Inc.
NAPSOLV, spotting agent, E. F. Drew & Co., Inc.
NAPSO, medium-titer powdered built soap, E. F. Drew & Co., Inc.
NAPSO 22, oil built soap, E. F. Drew & Co., Inc.
NAPSOUR, sour, E. F. Drew & Co., Inc.
NAPSUDS, rug and carpet soap, E. F. Drew & Co., Inc.
NAPTHOLE, alkali compound, special detergents, E. F. Drew & Co., Inc.
NAPTHOLE B, medium-high pH detergent, E. F. Drew & Co., Inc.
NAPTHOLE, ironer oil, E. F. Drew & Co., Inc.
NAPTEX, oil built soap, E. F. Drew & Co., Inc.
NAPWAX, ironer wax, E. F. Drew & Co., Inc.
NASHUA, double-face flannel, Nashua Textile Co.
NASHUA, package sealing machine, Nashua Package Sealing Co.
NATIONAL, cash registers, accounting machines, National Cash Register Co.
NATIONAL, driers, stretchers, drying cabinets, tumblers, National Dryer Mfg. Co.
NATIONAL, identification systems, labels, seals, price lists, tags, National Tag & Label Corp.
NATIONAL, marking equipment, marking ink, belt conveyors, National Marking Machine Co.
NATIONAL, soot remover and rust-preventative treatment, National Chemical Sales Co., Laboratory, Inc.
NATIONAL AIROIL, oil burners and gas burners, National Airoil Burner Co.
NATIONAL LANG, listing machines, National Marking Machine Co.
NATIONAL TAYPER, sealing machine, Nashua Package Sealing Co., Inc.
NATIONAL TRUCK LEASING SYSTEM, truck leasing and rental services, National Truck Leasing System
NAT-MAR-CO, marking-machine supplies, National Marking Machine Co.
NEATS OIL, belt dressing, Webb Belting Co.
NEBULYTE, oil-gas burner, Anthony Co.
NECCHI, sewing machines, Necchi Sewing Machine Sales Corp.
NEM-A, shirt-folding machine, J. W. Steele & Co.
NEO-FLOOR, mastic floor resurfacer, Midland Paint & Varnish Co.
NEO-SHINE, wax, Huntington Laboratories, Inc.
NEOTEX, specialty soap, Turco Products, Inc.
NEPTUNE, leather belt cement, Graton & Knight Co.
NE-TO, starch, A. E. Staley Mfg. Co.
NEUTRACIDE, sour, Lewis National Corp.
NEUTRA-LENE, deodorant neutralizer, Davies-Young Soap Co.
NEUTRALEX FILTERS, pH correction, Hungerford & Terry, Inc.
NEUTRA LUSTRE, for rug cleaners, Standard Chemical Works Co.
NEUTRASOL, synthetic detergent, Lewis National Corp.
NEUTRASUDS, flake or powder, high-titer tallow soap compound, E. F. Drew & Co., Inc.
NEUTRATEX, sour, Lewis National Corp.
NEUTRATINT, sour, Lewis National Corp.
NEUTRO, sour, Turco Products, Inc.
NEUTROGEN, sour, Lewis National Corp.
NEUTRONAP, sour, E. F. Drew & Co., Inc.
NEUTROPHOR, laundry neutralizer and whitener, Carlton Chemical Co., Inc.
NEUTROSOAP, neutral laundry soap, Carlton Chemical Co., Inc.
NEUTROTONE, detergent, Endriss Chemicals, Inc.
NEVA-CLOG, stapling machines, Neva-Clog Products, Inc.
NEVA-SLIP, pants clip, Commercial Tag Co.
NEVASTANE, lubricant, Keystone Lubricating Co.
NEVER-SLIP, collar protectors, Phoenix Products Co.
NEVERSLIP, tie hangers, Memphis Hanger Co. & Pittsburgh Hanger Co.
NEVERSTRETCH, feed ribbon, Southern Mills, Inc.
NEW DEPARTURE, ball, radial and thrust bearings, New Departure, Div. General Motors Corp.
NEWHOUSE, spotting guns, brushes, counter racks, sleeve formers, press pad, spotting noses, sleeve boards, wetcleaning aprons, Newhouse Co.
NEWMAN, watchmen's clocks, Detex Watchclock Corp.
NEW-MATIC, presses, New York Pressing Machinery Corp.
NEW NO. 30 CLEANER, fur cleaner, Nycco Products Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 306

NEW YORKER, drycleaning, laundry presses, New York Pressing Machinery Co.
NIAGARA, filter screens, Niagara Filter Corp.
NIAGARA, water meters, Buffalo Meter Co.
NICE, ball and thrust bearings, Nice Ball Bearing Co.
NICHOLSON, strainers, floats, traps, W. H. Nicholson & Co.
NI-ROD, electrode for machinable welds, International Nickel Co., Inc.
NOAH'S PITCH, caulking compound, Philip Carey Mfg. Co.
NO-BAK, ironer, Zephyr Laundry Machinery Co.
NO-CHLOR, spotting agent, Nu-Pro Mfg. Co.
NO-DARN, mending iron, No Darn Co.
NO-EFFORT, handkerchief and napkin press and handkerchief fluffer, American Laundry Machinery Co.
NOEX, petroleum solvent drycleaning unit, drycleaning tumbler, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
NOKORODE, drycleaning, laundry press pads, Fullo Corp.
NO-KRUSH, garment carrier, U. S. Hoffman Machinery Corp.
NOLA TOILET SOAP, soaps, Iowa Soap Co.
NO LAX, spotting agent, Warco Laboratories
NO-MAR TREATMENT, stain and water repellent, Paper Chemicals, Inc.
NO-MIX, bundle separators, Rosenthal Mfg. Co.
NO-MIX, identification system, Checking System Co.
NOMOLD, mold preventative, H. Kohnstamm & Co., Inc.
NON-CRUSH, shirt carriages, Time Savers, Inc.
NON-FER-AL, calcium carbonate, Diamond Alkali Co.
NON-SHIFT, wire garment hanger, Para-Lux Products Co.
NON-SKID, floor tiles, Virginia Greenstone Co., Inc.
NON X.L., water repellent, Boston Clip & Tag Co.
NORCO, meters, timers and control devices, Norman & Co.
NORIT, activated carbon, L. A. Salomon & Bro.
NORTH STAR, fur cleaning compound, Walter Haertel Co.
NORUST, laundry sour, Washine National Sands, Inc.
NOR-WIL, press covers, asbestos covers, Norton & Williams, Inc.
NORWOOD CASCADE, washer, American Laundry Machinery Co.
NO-SNAG, laundry marking fountain pen, Cleaners Specialties Supplies Co.
NOSOK, non-enzymic digester, spot remover, George E. Mead Co.
NO-STRING MARK, tape device for flatwork pressers, Rosenthal Mfg. Co.
NOTASTANE, lubricant, Keystone Lubricating Co.
NO-THREAD, compression fittings, Dresser Mfg. Div., Dresser Industries, Inc.
NOTRUX, mechanical loading and unloading extractor, American Laundry Machinery Co.
NO-VENT, boiler return system, David Stout & Sons
NUCHLOR, chloroform substitute, Nu-Pro Mfg. Co.
NU-CLEANING, synthetic drycleaning unit, U. S. Hoffman Machinery Corp.
NU-COAT, glove and leather finish, National Cleaners Chemical Mfg. Co.
NU-DL, leather dye, NuPro Mfg. Co.
NU-FLO, laundry sour, Johnson Chemical Industries, Inc.
NU-LUS, leather dressing, neutral, NuPro Mfg. Co.
NUMBERETTE, hand numbering machine, American Numbering Machine Co.
NUMBER 5, 11, 33, blues, Lewis National Corp.
NUMBER 4, blue, stripper, Lewis National Corp.
NUMBER 44, blue, Minnesota Chemical Co.
NUMBER 209, general formula, R. R. Street & Co., Inc.
NU-NAP, rug cleaner, Certified Chemical & Equipment Co.
NUODEX 87, mildew preventative, Nuodex Products Co., Inc.
NU-PAL, lint remover, Ferma Products Co.
NU-PRO, ink and stain remover stick, Nu-Pro Mfg. Co.
NU-SHEEN, dyeing service, Omaha Dye Works
NUSHENE, special alkali compounds, Speare Co.
NU-SO, detergent, Nu-Pro Mfg. Co.
NU-SOL, soap builders, Thompson-Hayward Chemical Co.
NUSOLVO, spotting agent, Nu-Pro Mfg. Co.
NUSUEDE, suede finishes, Eaton Chemical & Dyestuff Co.
NU-TEX, drycleaning soap, Nu-Pro Mfg. Co.
NU-TEX-TIZE, drycleaning detergent, Nu-Life Mfg. Co.
NUTRA SUDS, neutral soap flakes, E. F. Drew & Co., Inc.
NUTROL, synthetic wetcleaner, Keystone Aniline & Chemical Co., Inc.
NUTRONAP, sour, E. F. Drew & Co., Inc.
NUTTING, floor trucks, casters, wheels, Nutting Truck & Caster Co.
NU-WAY, liquid filter soap, Davies-Young Soap Co.
NU-WOOD, insulation board, Wood Conversion Co.
NYCCO, insecticide, Nycco Products Co.
NYCCO, prepared for dyes, Nycco Products Co.
NYLCOT, laundry net, Southern Mills, Inc.
NYLO, filter and laundry bags, press covers and cloth, X. S. Smith, Inc.
NYLONETS, nylon laundry nets, X. S. Smith, Inc.
NYLOTEX, nylon press covers, X. S. Smith, Inc.
NYLSEW, nylon sewing thread, Heminways Bartlett Mfg. Co.
NYOTEX, cotton-nylon nets, R. Lally Co.
NYTEX, press pads and covers, R. Lally Co.
NYTRON, synthetic detergent, Solvay Sales Div., Allied Chemical & Dye Corp.
NY-WUL, press covers, Stadham Co., Inc.

O

O.I.C., all type valves, Ohio Injector Co.
O.T., laundry drycleaning extractors, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
OAKITE, detergents, Oakite Products, Inc.
OAKITE COMPOUND NO. 32, scale and rust remover, Oakite Products, Inc.
OAKITE PENETRANT, detergent, Oakite Products, Inc.
OASIS, drinking-water cooler, Ebco Mfg. Co.
OBARK, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
OBLITO, stain remover, H. Kohnstamm & Co., Inc.
O'BRIEN, water storage heaters, O'Brien Steam Specialty Co., Inc.
OCCO, extractor baskets, Ohio Centrifugals Co.
OCTA-CLENE, rug cleanser, Moore's Time-Saving Equipment Co.
ODO-STICK, garment odor remover in stick form, Nu-Pro Mfg. Co.
OFELDT, boiler, Mears-Kane-Ofeldt, Inc.
OILGO, concentrated spotting agent, Carman & Co., Inc.
OILITE, self-lubricating bearings, machine parts, Amplex Div., Chrysler Corp.
OIL-KLEEN, oil remover, Kem Laboratories
OIL-RITE, oil cups, oilers, Oil-Rite Corp.
OILZOUT, oil remover, Washine National Sands, Inc.
O.K. PEARL STARCH, corn starch, Hubinger Co.
O.K. POWDERED STARCH, corn starch, Hubinger Co.
O.K. THIN BOILING STARCH, corn starch, Hubinger Co.
OLATE FLAKES, low-titer soap, Procter & Gamble Distributing Co.
OLIVE C. soap, Stadham Co., Inc.
OLIVESCO, detergent, Cowles Chemical Co.
OLIVILO, toilet soaps, Allen B. Wrisley Co.
OLSENMARK, marking inks, marking machinery, stamping presses, OlsenMark Corp.
OLSON, pressure filters, solvent stills, Olson Filtration Engineers, Inc.
OLSON KURB SIDE, aluminum package delivery body, J. B. E. Olson Corp.
OLYMPIC, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.
OMNI-SOUR, laundry sour, Carlton Chemical Co., Inc.
140-F, safety petroleum drycleaning equipment, U. S. Hoffman Machinery Corp.
ONE-LAY, shirt finishing machine, J. W. Steele & Co.
ONE SHOT, writing ink remover, Eaton Chemical & Dyestuff Co.
132, starch, A. E. Staley Mfg. Co.
$1000.00 GUARANTEED, insecticides, B. Heller Co.
ON-THE-SPOT, synthetic drycleaning equipment, A. B. Temple Co.
OPALOID, buttons, Stadham Co., Inc.
OPENETS, laundry nets and fabrics, Davis Mills Inc.
OPEN-TOP, extractors, Prosperity Co., Inc.
OPERATIVE TI-ME-TER, time signals, visual, audible equipment control, Buldwell Mfrs.
OPTO-MATIC, constant lever oilers, Trico Fuse Mfg. Co.
ORATOL L-48, synthetic detergent, Jacques Wolf & Co.
ORR, wool padding, Orr Felt & Blanket Co.
ORTHORATE, laundry chemical, Diamond Alkali Co.
ORTHOSILICATE, detergent, Diamond Alkali Co.
ORVUS, wetcleaning detergent, Procter & Gamble Distributing Co.
ORVUS EXTRA GRANULES, synthetic detergent, Procter & Gamble Distributing Co.
ORVUS W. A. PASTE, wetcleaning detergent, Procter & Gamble Distributing Co.
OSPECO, concentrated drycleaning soap, Oil States Petroleum Co., Inc.
O SPOTTER, stain remover, H. Kohnstamm & Co., Inc.
OTTER, waterproof leather cement, Virginia Leather Co.
OUTSERTS, package insert, Allied Printing & Stationery Co., Inc.
OXALATE-A, sours, Standard Chemical Works Co.
OXYFUME, fumigant, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp.
OZITE, insulation, laundry felt, American Hair & Felt Co.
OZONITE, built soap, Procter & Gamble Distributing Co.

P

PB, laundry marking tags, Boston Clip & Tag Co.
P.D.Q., detergent, Nu-Pro Mfg. Co.
P.F.S., soap, Nu-Pro Mfg. Co.
P.I.U., variable speed changers, Link-Belt Co.
P.M., built soap, Thompson-Hayward Chemical Co.
P-R, colorless paint and varnish remover, Caled Products Co., Inc.
PAASCHE, airbrushes, air painting equipment, Paasche Airbrush Co.
PACE, drycleaning soap, Caled Products Co., Inc.
PACIFIC, borax and sodium sesquicarbonate, Columbia-Southern Chemical Corp.
PACIFIC, sour bluing, Beach Soap Co.
PACKLESS, flexible hose, couplings, Packless Metal Products Corp.
PADRIGHT STEEL WOOL PADDING, press and ironer pads, padding, Padright Co.
PAINT-I-CATER, paint remover, W. F. Johnson Products Co.
PAINT-SOLV, paint remover, Huntington Laboratories, Inc.
PAISLEY, general line adhesives, Paisley Products, Inc.
PAK-AGE-KART, packaged work transporter, G. H. Bishop Co.
PALM, palm oil soap, Swift & Co.
PALMETTO, cotton belting, Victor Balata & Textile Belting Co.
PALMOIL, soap, Rome Soap Mfg. Co.
PALM ROSE, soaps, Iowa Soap Co.
PAMCO, straight pins, Risdon Mfg. Co.
PANAREX CO., recorder, Permutit Co.
PANTEX RHODES NATIONAL HATTER, hat blocking machine, Pantex Mfg. Co.
PANTS HORSE, trouser rack, R. B. Smith Co.
PAPER-STRUT, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
PARACOIL, water heaters, Davis Engineering Corp.
PARAGENE, stripper, Eaton Chemical & Dyestuff Co.
PARAGON, lubricator, Lukenheimer Co.
PARALATE, alkali compound, Diamond Alkali Co.
PARAMOUNT, garment, trouser bags, hanger covers, Mutual Paper Box Co., Inc.
PARA-SEAL, hanger cover, Para-Lux Products Co.
PARAZOLE, spot remover, Eaton Chemical & Dyestuff Co.
PARAZYME, digestive agent, enzyme spotting, Carman & Co., Inc.
PARIS, steam-air garment finisher, Garment Finishing Equipment Corp.
PARIS CONVERTIBLE, steam-air finishers, Garment Finishing Equipment Corp.
PARISIAN, sleeve former, U. S. Hoffman Machinery Corp.
PARKER, industrial boilers, Sid E. Parker Boiler Mfg. Co., Inc.
PARMELEE, wrench, Walworth Co.
PAROL, special alkali compounds, Speare Co.
PARR, typewriter keys, rubber fingertips, Speed Products Co., Inc.
PARROT, binder clips, Speed Products Co., Inc.
PAR-X, stain remover, H. Kohnstamm & Co., Inc.
PATCH MASTER, repair cloth kits, R. D. Bussard & Son
PATEXPAC, printed garment bags, shirt envelopes, Patek & Co.
PATINEX, upholstery shampoo, cleaning compound, Mortemoth Chemical Laboratories
PATINEX FURLIFE, fur shampoo, cleaning compound, Mortemoth Chemical Laboratories
PATRICK, steam iron, Lawrence M. Stein Co.
PATROL, watchmen's clocks, Detex Watchclock Corp.
PATTERSON-KELLEY, condensers, coolers, Patterson-Kelley Co., Inc.
PATTERSON'S, bleach, Patterson Laboratories, Inc.
PAWNEE, alkali soap builder, Wyandotte Chemicals Corp.
PAY-TEX, drycleaning soap for synthetic solvent systems, Patek & Co.
PAYTEXOL, oil, paint and grease remover, Patek & Co.
PC 450, neutral vegetable potash soap, E. F. Drew & Co., Inc.
PEABODY, gas, oil, coal burners, air heaters, Peabody Engineering Corp.
PEARL, built soap, flake and granulated, Colgate-Palmolive-Peet Co.
PEELCOTE, protective coating for metal parts, Watson Standard Co.
PEERLESS, laundry cover cloth, two-ply cover duck, Thomaston Mills
PEERLESS, pumps, Peerless Pump Div., Food Machinery Corp.
PEERLESS, scales, Triner Scale & Mfg. Co.
PEERLESS BEACON, laundry marking tags, Boston Clip & Tag Co.
PEET, white laundry bar soap, Colgate-Palmolive-Peet Co.
PEE-VEE, lacquer remover, Riverside Mfg. Co.
PELATONE, fur cleaning and finishing compound, Carman & Co., Inc.
PELLERIN-MILNOR, laundry, drycleaning extractors, Pellerin Milnor Corp.
PENBRITE, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENETEX, detergent, Stadham Co., Inc.
PENETRO, marking ink, National Marking Machine Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

PENETROH, grease solvent, H. Kohnstamm & Co., Inc.
PENETRON, glue solvent, Better Packages, Inc.
PENETRONE, starch, H. Kohnstamm & Co., Inc.
PENNANT, drycleaning soap, Davies-Young Soap Co.
PENNSYLVANIA, tires, tubes, batteries, Pennsylvania Rubber Co.
PENOZONE, bleach, Pennsylvania Salt Mfg. Co.
PENSAL, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENSAL-B, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENSAL-M, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENSAL-O, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENSO, spotting agent, A. L. Wilson Chemical Co.
PENTRATE, penetrant, American-La-France-Foamite Corp.
PEN-TRATE, spotting aid, Kennedy Products Co.
PEPO, prespotter, Stadham Co., Inc.
PEPSOL, drycleaning filter soap, A. F. Wolke Co.
PER, automatic drycleaning unit, Vic Cleaning Machine Co.
PERCHLORON, bleach, Pennsylvania Salt Mfg. Co.
PERCHLOR 600, drycleaning unit, Manitowoc Mfg. Div., Manitowoc Shipbuilding Co.
PERCLENE, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.
PERDOX, sodium perborate monohydrate, E. I. du Pont de Nemours & Co., Inc.
PERFECT, wheat starch, Keever Starch Co.
PERFECTA, steam and air spotting gun, Florian J. Hyman
PERFECTION, corn starch, Huron Milling Co.
PERFECTION, staple tags, Tagit Co.
PERFECTION, white neutral soap, Beach Soap Co.
PERFECTO, synthetic powder, National Cleaners Chemical Mfg. Co.
PERFECT WHEAT, laundry starch, Keever Starch Co.
PERFEX, controls and regulators, gauges, Perfex Corp.
PERFEX, press pads, Resilio Co.
PERK, synthetic drycleaning machine, Pantex Mfg. Co.
PERKLOR, synthetic solvents, Dow Chemical Co.
PERLITE, soap builder, H. Kohnstamm & Co., Inc.
PERMAFIBER MARKING, fiber material for manufacturing laundry and drycleaning tags, Permafiber Corp.
PERM-A-KLEEN, perchlorethylene solvent, Detrex Corp.
PERMA-MARKER, marking kit, Wm. J. Nicholson Laboratories
PERMA - NET - MARKERS, identification tags, Speare Co.
PERMA-NETS, rubber washing nets, Speare Co.
PERMANITE, acid- and alkali-resisting flooring, Maurice A. Knight
PERMAPROOF, flameproofing agent, B. F. Goodrich Co.
PERM-ASEPTIC, germicide, fungicide antiseptic, Perm-Aseptic Corp.
PERM-A-TEX, nylon press covers, X. S. Smith, Inc.
PERMATIZED, marking tags and tape, indelible marking ink, Wm. J. Nicholson Laboratories
PERMO, flameproofing, mothproofing agent, Per-Mo Products Co.
PERMOBOND, rubber-lined tanks, pipe and pipe fittings, U. S. Rubber Co.
PERMOPAD, pads for handkerchief ironer, Resilio Co.
PERMOTEX, nylon press covers, X. S. Smith, Inc.
PERMUTIT, water softeners, filters, Permutit Co.
PERMUTIT Q, ion exchanger, water conditioner, Permutit Co.
PERONE, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.
PERSONALIZED, garment bags, Rassenfoss Bag Co., Inc.
PERSPIR-X, perspiration remover, Paper Chemicals, Inc.
PETAL SMOOTH, starch, Clinton Foods, Inc.
PETRENE, drycleaning soap, Wonder Wash Corp.
PETRO, oil burners, pumps and heaters, water heaters, Petroleum Heat & Power Co.
PETRYN, oil, paint and grease remover, Patek & Co.
PHENIX, cotton and nylon press covers, Phenix Supply Co.
PHILABELT PRESERVATIVE, belt dressing, Philadelphia Belting Co.
PHILCO, storage batteries, Philco Corp.
PHOENIX "SELF STICK," shirt bands, Phoenix Products Co.
PHOTOSWITCH, timers, pilot relays, controls, Photoswitch, Inc.
PHOTRONIC, photoelectric cell, Weston Electrical Instrument Corp.
PH-PLUS, briquet alkali for water softening, Mathieson Chemical Corp.
PICK, water heaters, Pick Mfg. Co.
PICRIN, volatile spotting compound, R. R. Street & Co., Inc.
PIEDMONT, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
PINLUB, wetcleaning soap, Package Chemical Co., Inc.
PIN-O-TEX, pine oil detergent, Slater-Robbins Co. Inc.
PIONEER, nylon laundry nets, Benwall Mfg. Co., Inc.
PITTCHLOR, calcium hypochlorite, Columbia-Southern Chemical Corp.
PITTSBURGH, paints, Pittsburgh Plate Glass Co., Paint Div.
PIXALL, lint remover, John E. Coolidge Co.
PLANER BRAND, leather belting, Philadelphia Belting Co.
PLASTIC QUIK-PACH, plastic firebrick, A. P. Green Fire Brick Co.
PLASTYLON, nylon laundry nets, Carson Textile Co., Inc.
PLEASANT ODOR, fur cleaning fluid, Bernard Sirotta Co.
PLEX, digester, Patek & Co.
PLEZURE, spotting soap, Caled Products Co., Inc.
PLIBRICO, jointless firebrick, furnace wall, boiler setting, furnace inspection doors, Plibrico Jointless Firebrick Co.
PLICAST, castable refractory material, Plibrico Jointless Firebrick Co.
PLISULATE, insulating material, Plibrico Jointless Firebrick Co.
PLUS, spotter (wet or dry), Adco, Inc.
PNEU-MAT, woven rubber mat, A. N. Brabrook
POCKETEERS, pocket forms, Leef Bros., Inc.
POLAR, moth preventative, Barrett Div., Allied Chemical & Dye Corp.
POLAR BEAR, fur cleaner, Walter Haertel Co.
POLARIS, fur glazing cleaner, Walter Haertel Co.
POLARSUDZ, cold-water built soap, Beach Soap Co.
POLARTONE, laundry sour, G. S. Robins & Co.
POMONA, turbine pumps, Fairbanks Morse & Co.
PONCHO, wet water repellent, Patex & Co.
PONY, laundry presses, Prosperity Co., Inc.
POOR PETER PILLOW, complete pillow cleaning service, R. Lally Co.
POPKINS, store fixtures, Popkins Studios Fixtures Co.
PORTO-FAB, prefabricated buildings, Porto-Fab Co., Inc.
POSITEMP, temperature control for digesters, Cleaners Specialties Supplies Co.
POSTAGE-METER, postage meter tape, Gummed Tape & Devices Co.
POW, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
POWDERED HAWKEYE SOAP, soaps, Iowa Soap Co.
POWDERENE, bleaching powder, West Side Corp.
POWER CIRCLE, presses, Prosperity Co., Inc.
POWER-FLEX, underfeed stokers, Link-Belt Co.
POWER-FLOW, roof ventilator, DeBohezat Fans Div., American Machine & Metals, Inc.
POWERMASTER, automatic steam generator, Orr & Sembower, Inc.
POWERMASTER, stacker, Lewis-Shepard Products, Inc.
POW PLUS, dry powdered soap, Keystone Aniline & Chemical Co., Inc.
POWR PLUS, air-operated laundry presses, Pantex Mfg. Corp.
PRATT & CADY, brass and iron valves, Reading-Pratt & Cady Div., American Chain & Cable Co., Inc.
PREE-HEET, return systems, Fred H. Schaub Engineering Co., Inc.
PREE-SPOTTER, concentrated prespotter, Rayochem Products Co.
PREFERRED, generators, Preferred Utilities Mfg. Corp.
PRE-MARKED STRIP TAG, solvent- and waterproof marking tags, Pre-Marked Strip Tag Co.
PRESET, a type of free-vane air-operated controller, Bristol Co.
PRES-GRIP, shaping and finishing wetcleaned and dyed garments, Pres-Grip Corp.
PRESO, heavy prespotter, G & G Chemical Co.
PRESPOTTER S, prespotter, Nu-Pro Mfg. Co.
PESPOTTER 23, prespotter, Patek & Co.
PRESS KING, laundry press pads, Fullo Corp.
PRESSRITE, press padding, Poro-Pres Co.
PRESSTITE, flexible metal connector for modern laundry and pressing machines, American Brass Co., American Metal Hose Branch.
PRESTO, self-sealing paper bands, Sure-Hold Div., Nashua Gummed & Coated Paper Co.
PRESTO CLEANER, press-heat cleaner, Stadham Co., Inc.
PRESTOPRESS, air-operated drycleaning presses, Goldman Pressing Machine Corp.
PRIDE, washing powder, Swift & Co.
PRIMA BRAND, leather belting, Philadelphia Belting Co.
PRIME-KOTE, roof coating, Philip Carey Mfg. Co.
PRIME SOHP, soap, Beach Soap Co.
PRIMS COVER A BUTTON, button molds, William Prym, Inc.
PRINCESS, wire hangers, Vail Mfg. Co.
PRINTED STRING, cotton tape, Milwaukee Printed String Co.
PRINTWEIGH, weight printing scales, Toledo Scales Co.
PROCTOR & SCHWARTZ, INC., automatic shampooing and drying systems for rugs, Proctor & Schwartz, Inc.
PRODUCTIMETERS, counting and measuring machines, Durant Mfg. Co.
PRODUCTO, timer, American Laundry Machinery Co.
PROLYTE, enzymic digestive agent, Allen & Vickers, Inc.
PROPASOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
PROSPERITY, complete line of laundry and drycleaning equipment, Prosperity Co., Inc.
PROSPERITY APRONS, clipper and alligator F.W.I. aprons, Carman & Co., Inc.
PROSPERITY BLUE, concentrated laundry blue, Carman & Co., Inc.
PROSPERTROL, automatic washer controls, Prosperity Co., Inc.
PROSPOWAX, powdered F.W.I. wax, Carman & Co., Inc.
PROTECTO, identification systems, American Laundry Machinery Co.
PRO-TEK, protective hand cream, E. I. du Pont de Nemours & Co., Inc.
PROTEX TOILET SOAP, soaps, Iowa Soap Co.
PRYM'S, garment hangers, safety pins, William Prym, Inc.
P22, hand stapler, Arrow Fastener Co.
PUF-FINISHER, garment finisher, G. H. Bishop Co.
PULLCLEAN, continuous towels cabinets, Pullclean Towel Cabinet Co., Inc.
PULVOAX, powdered wax, Lewis National Corp.
PURATIZE, mildewproofing, Aqua-Sec Corp.
PURE-TEX, laundry bactericide, Cidex Corp.
PURGE-O-SOL, drycleaning soap, G & G Chemical Co.
PURGO, soap builder, Minnesota Chemical Co.
PURITY, soap flakes, soap, Iowa Soap Co.
PURITY, sour, Thompson-Hayward Chemical Co.
PURKETT, shakeout and conditioning tumblers, assembly reels, bins, Purkett Mfg. Co.
PURO, spotting compound, Adco, Inc.
PUR-O-CEL, filter, Proportioneers, Inc.
PUR-O-SAN, drycleaning soap, Huntington Laboratories, Inc.
PURPLE EDGE, padding, Egan Cotton Mills.
PYRAMID, laundry nets, R. Lally Co.
PYRAMID, liquid color stripper, Washine National Sands, Inc.
PYRATEX, lipstick, nail polish, paint remover, R. R. Street & Co., Inc.
PYRENE, fire extinguishers, Pyrene Mfg. Co.
PYRO, surface thermometer, Pyrometer Instrument Co., Inc.
PYROFLEX, acid and alkali resisting paints, Maurice A. Knight.
PYROPRUF, flameproofing compound, Atlantic Stamproof Co.
PYRO, liquid soap, National Cleaners Chemical Mfg. Co.
PYRO-SOAP, wetcleaning soap, National Cleaners Chemical Mfg. Co.
PYROTRON, pyrometers, Bailey Meter Co.

Q

Q-D, spotting agent, A. L. Wilson Chemical Co.
Q & S, counter rack, Ink-O Products Co.
Q-T, heat recirculators, Kisco Boiler & Engineering Co.
Q-CHROMASTIC, veneer coating for furnace walls, Quigley Co., Inc.
Q-CHROME, refractory material, Quigley Co., Inc.
Q-1, airform coat finisher, U. S. Hoffman Machinery Corp.
Q-7, drier or semi-finisher, U. S. Hoffman Machinery Corp.
Q-2, airform ladies' jacket finisher, U. S. Hoffman Machinery Corp.
QUADRA-CLENE, rug-washing machine, Moore's Time-Saving Equipment Co.
QUADRAFOS, water conditioner, detergent, dispersing agent, Rumford Chemical Works
QUAKER BLUE, laundry blue, Pennsylvania Salt Mfg. Co.
QUAKER IMPROVED, chlorinated lime, bleach, Pennsylvania Salt Mfg. Co.
QUALITEX, press covers, puff iron covers, sponge pads, Quality Products Co.
QUEEN, wire hangers, Vail Mfg. Co.
QUICK AID FIRE GUARDS, fire extinguishers, General Detroit Corp.
QUICK BREAK, break powder, Wyandotte Chemicals Corp.
QUICKLIFT, trucks, Lewis-Shepard Products, Inc.
QUIGLEY, fire brick, Quigley Co., Inc.
QUIK-CUT, wrapping table, Coffman Mfg. Corp.
QUIK-CUT, wrapping table, Norman & Co.
QUIK-LOK, collar protector, Steinman Paper Co.
QUIK-LOK, shirt boxes and collar supports, Century Paper Products
QUIK-PACH, fire brick, A. P. Green Fire Brick Co.
QUIK STEAM, press, Butler Mfg. Co.
QUIKTAG, laundry marking tag, Boston Clip & Tag Co.
QUIK-TEMP, heating system, Fred H. Schaub Engineering Co., Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

R

R.C.C., rug cleaning and finishing compound, soaps, Lewis National Corp.
R.C.U., rug and upholstery soap, Keystone Aniline & Chemical Co., Inc.
R.G.F., stain remover, Riverside Mfg. Co.
R.-K, valves and regulators, Ruggles, Klingemann Mfg. Co.
R.-M., asbestos products, packing friction materials and rubber products, Raybestos-Manhatten, Inc.
RF, high pressure boiler, Titusville Iron Works Co., Div. Struthers Wells Corp.
RSR, digestive spotting agent, Wallerstein Co., Inc.
R.-X, spotter, Caled Products Co., Inc.
RADIANT, continuous tumbler, Radiant Drying Co.
RAINBOW, marking tags, Triple "M" Inc.
RAINBOW, plastic garment hangers, Henry Hanger Co. of America
RAINBOW, spotting pencils, Eaton Chemical & Dyestuff Co.
RAK-GUIDE, rack index for separating garments alphabetically, Fara-Lux Products Co.
RAM, drycleaning soap, Adco, Inc.
RAMPELLENT, water repellent, Perm-Aseptic Corp.
RAMPLEX, detergent, Perm-Aseptic Corp.
RAMSEY, chain drive, chain drive sprockets, shaft couplings, Ramsey Chain Co., Inc.
RAMTITE, plastic refractory, Ramtite Co., Div. S. Obermayer Co.
RAN-SAREX, combustion recorder, Permutit Co.
RANDE, metal press pads, Bergen Machine & Tool Co., Inc., Rande Unit Springs Div.
RAPID POWER BOOSTER, portable power belt conveyor, Rapids-Standard Co., Inc.
RAPID ROLLER, conveyor, Rapids-Standard Co., Inc.
RAPID-WHEEL, conveyor, Rapids-Standard Co., Inc.
RAPISTAN TABLE-VEYOR, belt conveyor to facilitate general handling of laundry bundles, Rapids Standard Co., Inc.
RAY, oil and gas burners, pumps, Ray Oil Burner Co.
RAYBESTOS, brake lining, clutch facing, brake blocks, Raybestos-Manhatten, Inc.
RAY-METL, clutch facings, Raybestos-Manhattan, Inc.
RAYOSOAP, moisture-bearing drycleaning soap, Rayochem Products Co.
RAYS, tape, Spear Box Co., Inc.
RAYS KRAFT, packaging supplies, Spear Box Co., Inc.
RAYTEN, cold-water soap, John T. Stanley Co., Inc.
READY-PACK, cast split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.
RECEIV-O-MARKER, indentification systems, Best Forms Co.
RE-CIRK-IT, circuit breakers, Heinemann Electric Co.
RECLAMITE, stain remover, H. Kohnstamm & Co., Inc.
RECORD-A-CALL, telephone forms and registers, Econo-Pak Register Co.
RECORDAK, accounting machines and systems, record systems, Recordak Corp.
RED ARROW, feed ribbon, Southern Mills, Inc.
RED EDGE, pads and padding for flatwork ironers and press machines, Knitted Padding Co.
RED FLASH, water heaters, Pick Mfg. Co.
RED & GREEN LINE, laundry fabrics, Hettrick Mfg. Co.
RED HEAD, laundry and drycleaning presses, Forse Equipment Corp.
REDILIFT, trucks, Lewis-Shepard Products, Inc.
REDI-MARK, strip tags, Pittsburgh Tag Co.
REDI-TAG, pre-printed marking tag, Larton Products Co., Inc.
RED LABEL, tallow soap, Beach Soap Co.
RED LINE, cotton goods, Pittsburgh Waterproof Co.
RED-LINE, garment drier, Hopkins Equipment Co.
RED LINE, greases, oils, lubricants, Union Oil Co. of California
REDOTEX, neutral red oil flakes and powder, Allen B. Wrisley Co.
RED STAR, diapers, towels and toweling, George Wood, Sons, & Co.
RED STAR, feed ribbons, L. H. Gilmer Co., Div. U. S. Rubber Co.
REDUCUO, liquid color stripper, Washine National Sands, Inc.
REDUCTORS, speed reducers, Boston Gear Works, Inc.
REDUX, indelible ink remover, Boston Clip & Tag Co.
REESCO, powdered laundry soap, Minnesota Chemical Co., Inc.
REEVES ARMY TWILL, uniform cloth, Reeves Brothers, Inc.
REFINEX 1, zeolite cleanser and reconditioner, Refinite Corp.
REFINITE, zeolite water softeners, Refinite Corp.
REFLEXIT, replasticizer, Patek & Co.
REGAL, engines, Ames Iron Works
REGAL, laundry indelible ink, I. Geller & Son
REGAL, neutral synthetic detergent, Armour & Co.
REGENT, 30-pound synthetic drycleaning unit, Detrex Corp.
REKAB, powdered soap, soap chips, Minnesota Chemical Co.
RELIABLE, fur cleaning and fur storage equipment, Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
RELIANCE, a.c. and d.c. motors, motor generators, Reliable Electric & Engineering Co.
RELIEF, spotter, Murphy Sales Co.
RE-LOGIK, powdered soap, Minnesota Chemical Co.
REMA, vacuum systems for presses, Rema Corp.
REMO, cover-cloth fasteners, rack clips, net and marking pins, trays, safety and steel pins, overall tags, Risdon Mfg. Co.
RENARDS', leather cleaning and dyeing, Renards'
RENEWO, angle and globe valve, Lunkenheimer Co.
RENEX, detergents, Industrial Chemicals Dept. (Atlas Powder Co.)
RE-NU, potash saponified resin and fatty acids, Armour & Co.
RENUIT, liquid starch, Washine National Sands, Inc.
REO, motor trucks, Reo Motors, Inc.
REP, water repellent, R. R. Street & Co., Inc.
REPEL-O-MOTH TANK, mothproofing equipment, Repel-O-Products Div., North American Merchandising Co.
REPUBLIC, controls, instruments, Republic Flow Meters Co.
RE-PURGO, powdered soap, Minnesota Chemical Co.
RESEARCH, zeolite, Research Products Corp.
RESILLO, press pads, Resillo Co.
RESISTI-CAL, water repellent, Caled Products Co., Inc.
RESISTO, water repellent, Resisto Laboratories
RESIZET, sizing, Takamine Laboratory, Inc.
RESSYN, zeolite, Hungerford & Terry, Inc.
RESTORTEX, liquid sizing, National Cleaners Chemical Mfg. Co.
RESYN ADHESIVES, glues, gums, sizings, starches, National Starch Products, Inc.
RETRON, flatwork ironer, American Laundry Machinery Co.
REVERE SHOWMASTER, floodlights and lighting equipment, Revere Electric Mfg. Co. Div., Flexonics Corp.
RE-VI, water repellents, Davies-Young Soap Co.
REVOLITE, laundry roll covers, padding press covers, Revolite Div. (Atlas Powder Co.)
REX, soluble liquid drycleaning soap, Davies-Young Soap Co.
REX, sour, Kem Laboratories
REX-FLEX, metal hose, Chicago Metal Hose Div., Flexonics Corp.
REX-TITE, heat-proof reattachable couplings, Chicago Metal Hose Div., Flexonics Corp.
REX-TUBE, flexible metal hose, Chicago Metal Hose Corp.
REX-WELD, metal flexible hose, tubing, Chicago Metal Hose Div., Flexonics Corp.
REZEX, resinous zeolite, Elgin Softener Corp.
REZISTAL, stainless steel, Crucible Steel Co. of America
R-51, drycleaning unit, Shields Engineering & Mfg. Co.
R-51A, drycleaning unit, Shields Engineering & Mfg. Co.
RIBBON DELUXE, cotton ribbon, Milwaukee Printed String Co.
RIBBON-RITE, marking machine, Textile Marking Machine Co., Inc.
RICE'S, paint products, Barreled Sunlight Paint Co.
RICHMOND, leather belting, Virginia Leather Co.
RIDDAX, special alkali compound, Wyandotte Chemicals Corp.
RIMACO, size, stripper, wetcleaning soap, Riverside Mfg. Co.
RIMACO GENERAL FORMULA, ink and stain remover, Riverside Mfg. Co.
RINK-L-FREE, garment distributor, Time Savers, Inc.
RINTEX, soap and alkali compound, Wyandotte Chemicals Corp.
RISDON, cuff fasteners, marking flags and targets, Risdon Mfg. Co.
RIVERSIDE, wet spotter, carpet shampoo, stripper, Riverside Mfg. Co.
ROADOL, paint, oil and grease remover, Package Chemical Co., Inc.
ROADOL I., wet spotter, Package Chemical Co., Inc.
ROBERTS, numbering machine, Roberts Numbering Machine Co.
ROBINITE, soap powder, G. S. Robins & Co.
ROBINOL, wetting agents, G. S. Robins & Co.
ROBOT, self-contained automatic washers, Robot Laundry Machinery Sales, Div. Wolf Co.
ROCCAL, germicide, Sterwin Chemicals, Inc.
ROCKET, laundry presses, Troy Laundry Machinery Div., American Machine & Metals, Inc
ROCKWEAVE, laundry textiles, aprons, cover and filter cloth, double-face flannel, laundry nets, Callaway Mills, Inc.
ROCKWELL, valves, steam traps, W. S. Rockwell Co.
RODALON, non-staining disinfectant, Fairfield Laboratories
RO-FLO, air compressors, vacuum pumps, Allis-Chalmers Mfg. Co.
ROK-RIB, laundry nets, Whitehouse Products, Inc.
ROLA-RUG, rug rolling and packaging machines, Lincoln Products, Inc.
ROLL-O, trouser guards, Paulin Products Co.
RONAFLEX, elastic synthetic tubing with woven metal wire cover, Ronaflex Tubing Co., Inc.
RO-NOR, stain remover, H. Kohnstamm & Co., Inc.
ROOFKOTER, roof material, Tropical Paint & Oil Co.
ROOT BAGGER, garment bagger, Huebsch Div., American Laundry Machinery Co.
ROTAIRE, conditioning tumbler, American Laundry Machinery Co.
ROTARY, soot blower, Marion Machinery Foundry & Supply Co.
ROTEX, drycleaning extractor, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
ROTH, boiler feed units, pumps, Roy E. Roth Co.
ROTO BRUSH, electric upholstery shampoo machine, Certified Chemical & Equipment Co.
ROTO-KLEEN, filter, Bowser, Inc.
ROTO-MATIC, rotating laundry process units, Unipress Co.
ROUND "R," steel boiler, coal, oil, gas stoker, Kewanee Boiler Corp.
ROUND THE BUTTON, shirt-ironing press pads, Resillo Co.
ROYAL, brass safety pins, Risdon Mfg. Co.
ROYAL, medium-titer, coco-tallow chip, neutral soap, Armour & Co.
ROYAL, rubber hose, rubber belting, U. S. Rubber Co.
ROYAL CALENDER, cylinder type flatwork ironer, American Laundry Machinery Co.
ROYAL OAK, leather belting, Webb Belting Co.
ROYAL PINE, soaps, Iowa Soap Co.
ROYAL WORCESTER, belt cement, Graton & Knight Co.
RP NO. 757, stain remover, H. Kohnstamm & Co., Inc.
RUBBER CITY, roofing materials, Rubber City Mfg. Co.
RUBEROID, built-up roofing materials, Ruberoid Co.
RUGGLO, rug cleaning soap, Merson Products Co.
RUG-IT, rug cleaning detergents, Certified Chemical & Equipment Co.
RUG-O, rug and carpet soap, Davies-Young Soap Co.
RUSCO, rubber belting, woven belting, press tape, Russell Mfg. Co.
RUST BAR, paint, rust preventative, Midland Paint & Varnish Co.
RUST-E-LIM, rust remover, Johnson Chemical Industries, Inc.
RUSTEX, sour, Hood Chemical Co., Inc., Crescent Div.
RUSTEZE, rust solvent, Hood Chemical Co., Inc., Crescent Div.
RUSTGO, rust remover, A. L. Wilson Chemical Co.
RUSTICK, rust remover, National Cleaners Chemical Mfg. Co.
RUSTICON SS, rust preventative, Philadelphia Quartz Co.
RUST RAIDER, boiler and heating system cleaner, Radiator Specialty Co.
RUSTYBASE, rust remover, Hachik Bleach Co.

S

S.E.B., wetcleaning soap, E. F. Drew & Co., Inc.
S.M.A., high alumina firebrick, McLeod & Henry Co., Inc.
SOH, low-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
SP, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
SABIN, glove cleaning machines, Sabin Machine Co.
SACO, speed reducers, Stephens-Adamson Mfg. Co.
SACON, belt conveyor carriers, Stephen-Adamson Mfg. Co.
SAFEGUARD, safety cans, General Detroit Corp.
SAFE KUTTERS, cord knife, Time Savers, Inc.
SAFE-TIE ANCHORS, refractory anchors, Ramtite Co., Div. S. Obermayer Co.
SAFE-T-SOL, dry oil, paint and grease remover, Patek & Co.
SAFE-T-THRIFT, safety solvent unit, Butler Mfg. Co.
SAFETY, diapers, Sani-Top Co.
SAFETY LINEN SOUR, sour, Diamond Alkali Co.
SAF-T-AIR, ventilator, United Electric Motor Co.
SAF-T-MARK, marking tags, Stry-Lenkoff & Co.
SAGER SPREADERS, flatwork spreaders, M. A. Sager & Co.
'SAIRSET, air-setting bonding mortar, A. P. Green Fire Brick Co.
SALVE-O-LIN, skin salve, Keystone Aniline & Chemical Co., Inc.
SAMOSET, soap, Lewis National Corp.
SAMSON, packing, U. S. Rubber Co.
SAMSONMITE, filter bags, feather bags, extractor covers, soap whips, starch whips, tumbler pads, Manitowoc Cotton Goods Mfg. Co.
SANA-FILTER, low-pressure, filter-type soap, Huntington Laboratories, Inc.
SANA-SIZE, sizing, Huntington Laboratories, Inc.
SANI-SOUR, antiseptic, all-purpose sour, Standard Chemical Works Co.
SANITEX, baskets, trucks, bags, C. R. Daniels, Inc.
SANITONE, drycleaning process, Emery Industries, Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

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SANITONE MC, mothproof, Emery Industries, Inc.
SANITONE SS, silk size, Emery Industries, Inc.
SANITONE WR, water repellent, Emery Industries, Inc.
SANI TOP, diaper cans, diaper pails, deodorants, Sani-Top Co.
SANI-TYPE, heat reclaimer, Patterson-Kelley Co., Inc.
SAPPHIRE, stripper and strain remover, Lewis National Corp.
SARCO, steam traps, temperature regulators, Sarco Co., Inc.
SARCOCIDE, sour, Slater-Robbins Co. Inc.
SARCO-CONCENTRATE, paint and grease remover, Slater-Robbins Co. Inc.
SARCO-MIST, moth spray, Slater-Robbins Co. Inc.
SARCO-SOL, paint and grease remover, Slater-Robbins Co Inc.
SARCO-TEX, wetcleaning detergent, Slater-Robbins Co. Inc.
SATINETTE, combination starch, Keever Starch Co.
SAV-A-LOAD, extractor covers, F. H. Bonn Co.
SAVO, 92% powder soap, John T. Stanley Co., Inc.
SAVONOL, wet spotter, Patek & Co.
SAXMAYER, bundle tyers, National Bundle Tyer Co.
SAYF, mothproofing compound, Sayf Mothproofing Co.
SCALE-I-CATER, boiler compound, W. F. Johnson Products Co.
SCHAUB, boiler feed and condensation return systems, Fred H. Schaub Engineering Co., Inc.
SCHRAMM, air compressors, Schramm, Inc.
SCOTCH-MUND, boilers, Mund Boilers, Inc.
SCOTSMAN, washers, Ayr-Mor Machinery Co., Inc.
SCOTTDALE, stoking grate, Marion Machine Foundry & Supply Co.
SCOTTIE, JR., high-pressure riveted boilers, Kewanee Boiler Corp.
SCOUREX, textile scouring, Essential Chemicals Co.
SCRAM BLOOD, spotting agent, Warco Laboratories
SEABLUE, blue, Speare Co.
SEA FOAM, soap powder, Colgate-Palmolive-Peet Co.
SEALED POWER, totally enclosed fan-cooled motors, Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works
SEAL MASTER, ball bearings, Stephens-Adamson Mfg. Co.
SEAL-O-SAN, enamel, Huntington Laboratories, Inc.
SEAL SILICATE, silicate adhesive, Philadelphia Quartz Co.
SEALTITE, liquid-tight electrical wiring conduit, American Brass Co., American Metal Hose Branch
SEAMLEX, seamless flexible metal hose and tubing, Seamlex Co., Inc.
S.E.B. CONCENTRATED, silk and wool soap, E. F. Drew & Co., Inc.
SEC, synthetic drycleaning unit, Sec-O-Matic Corp.
SEC-CLEANIZED, drycleaning process, Sec-O-Matic Corp.
SECCO, dry water repellent, Patek & Co.
SEC-O-MATIC, synthetic solvent drycleaning unit, Sec-O-Matic Corp.
SECTOFOG, moth protection by fogging, Fumol Corp.
SECURITY, marking pins, Risdon Mfg. Co.
SECURITY A-1, lusterizing formula, fur glaze aerosol type, Security Fur Seal Co., Inc.
SEE-SAFE, plastic storage and blanket bags, Mehl Mfg. Co.
SELECTRIC, water heaters, Crane Co.
SELF-SEAL, adhesive shirt bands, National Paper Band Co.
SELF-STICK, shirt bands, Phoenix Products Co.
SELLERS, steam boilers, open return systems, Sellers Engineering Co.
SELLOGEN, wetting agents, Jacques Wolf & Co.
SEMI-STOD, cleaners' light naphtha, Anderson-Prichard Oil Corp.
SENECA, soap, Lewis National Corp.
SENSITROL, relay, Weston Electrical Instrument Corp.
SENTINEL, oil cup, Lunkenheimer Co.
SEPTO SOUR, sour, Diamond Alkali Co.
SERVIS RECORDER, time and truck recorders, Service Recorder Co.
SESQUILATE, laundry detergent, Diamond Alkali Co.
1707, blue, H. Kohnstamm & Co., Inc.
SHAMROCK, canvas baskets, hampers, trucks, Meese, Inc.
SHAW, collar edger, Reed Mfg. Co.
SHEEN-TEX, synthetic rug cleaning soap, Blenco Co.
SHELBY, tubing, National Tube Co.
SHELF-TYPE, trucks, Market Forge Co.
SHELL, naphtha, stain remover, Shell Oil Co., Inc.
SHELL-LESS, washers, U. S. Hoffman Machinery Corp.
SHELL-SOL, naphtha, petroleum solvent, Shell Oil Co., Inc.
SHELL TOX, insecticide, Shell Oil Co., Inc.
SHIELDS, drycleaning unit, Shields Engineering & Mfg. Co.
SHINE BRIGHT, liquid scrubbing soap, Hild Floor Machine Co.
SHIPSAFE, bags, Lanning Bag & Specialty Co.
SHIRLAN, textile fungicides, E. I. du Pont de Nemours & Co., Inc.
SHIRT BIN, for conveying shirts, J. W. Steele & Co.
SHIRT CHUTE, metal chute for shirt handling, Rosenthal Mfg. Co.
SHIRT PAX, shirt bag, Time Savers, Inc.
SHIRTRANSPORT, shirt transporter, G. H. Bishop Co.
SHIRT TRUX, steel shirt bins, Time Savers, Inc.
SHOWERFEED, floor, rug and carpet scrubbing machines, Hild Floor Machine Co.
SHOWER-PRUF, water repellent, Adco, Inc.
SHOW-MASTER, lighting unit to accent displays by flood or spotlight, Revere Electric Mfg. Co.
SHREDDED, 88% flake soap, John T. Stanley Co., Inc.
SIBUR, mothproofing agent, Sibur Mothproofing Co.
SIDE AISLE, truck bodies, Montpelier Mfg. Co.
SIEBRING, electromatic steam boiler, Siebring Mfg. Co.
SIGNAL, flameproof, insecticide, Signal Chemical Mfg. Co.
SILENT HUNTINGTON, scrubbing and polishing floor machine, Huntington Laboratories, Inc.
SILENT SERF, portable vacuum cleaner, Certified Chemical & Equipment Co.
SIL-EX, black metal washer, Gross Machinery Co., Inc.
SILICON, spun nylon press cover, Phenix Supply Co.
SILKANWOOL, silk and woolen soap, North Coast Chemical & Soap Works
SILKCLEEN, spotting agent, Silkcleen Mfg. Co.
SILTEX FLAKES, medium-titer soap, Allen B. Wrisley Co.
SILVER-CREST, washers, U. S. Hoffman Machinery Corp.
SILVER-KOTE, lacquer, Pittsburgh Waterproof Co.
SILVER LEAF, nets, Southern Mills, Inc.
SILVERLINK, roller chains, sprockets, Link-Belt Co.
SILVERSEAL, colored specialty tapes, Gummed Tape & Devices Co.
SILVERSTREAK, silent chain drives, Link-Belt Co.
SILVERTEEN, wire hangers, Academy Hanger Co., Inc.
SILVERTINE, straight and safety pins, Vail Mfg. Co.
SILVERTOP, steam trap, V. D. Anderson Co.
SIMMONS, cuff and tag tacking machines, Simmons Machine Co.
SIMMONS ELECTRO-MEND, mending and patching machines, Simmons Machine Co.
SIMPLEX, break powder, H. Kohnstamm & Co., Inc.
SIMPLEX, laundry tumblers, extractors and washers, flatwork ironers, drycleaning tumblers, Ironer Div., Speed Queen Corp.
SIMPLEX, office machines, time recorders, Simplex Time Recorder Co.
SIMPLEX, oil burners, Simplex Oil Heating Corp.
SINGER, sewing machines, accessories, Singer Sewing Machine Co.
SIRCO, tropical nut shells for fur cleaning, Bernard Sirotta Co.
SIRCO FUME, liquid fumigating gas, Bernard Sirotta Co.
6-A, automatic synthetic drycleaning unit, Prosperity Co., Inc.
6-T, benzine soap, Midland Color & Chemical Co.
630, drycleaning soaps, Caled Products Co., Inc.
60 SECOND, solvent, Superior Products Co.
SIZE, water-soluble size finish, Davies-Young Soap Co.
SIZE-ALL, liquid sizing, Keystone Aniline & Chemical Co., Inc.
SIZE-ALL, permanent sizing, Benda Products, Inc.
SIZEOFF, enzymic desizing agent, Takamine Laboratory, Inc.
SIZ-IN, hat sizing, Greenville Chemical Co.
SKELLYSOLVE, petroleum solvents, Skelly Oil Co.
SKORTEX, wetcleaning compound, Wyandotte Chemicals Corp.
SKY ROCKET, extractors, Hammond Laundry-Cleaning Machinery Co.
SKYTINT, liquid laundry blue, Kliegman Bros., Inc.
SLACKS SAKS, trouser bags, Phoenix Products Co.
SLICKER, brushes, American Pressboard Co., Inc
SLIP EASY BRAND, motor oil, boiler and roofing materials, Riverside Chemical Co., Inc.
SLIP-IN, collar protectors, Phoenix Products Co.
SLIP-NOT, special tanned leather belting, Milwaukee Leather Belting Co.
SLIP-ON, hanger shields, Academy Paper Box Co.
SLIP-ON, hanger shields, Larton Products Co., Inc.
SLYDE-OUT, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
SMASH, break powder, Minnesota Chemical Co.
SMITH-DRUM, laundry machinery, Smith-Drum Co.
SMITH'S, collar, cuff and neckband replacements, Gilman B. Smith Co., Inc.
SMOOTH-TEX, press cloth, feed ribbons, Pittsburgh Waterproof Co.
SNA-PON, trouser guards, Tillery Container Co.
SNAP-TITE, cover-cloth clamp, J. W. Steele & Co.
SNOWFLAKE CRYSTALS, sodium sesquicarbonate, Solvay Sales Div., Allied Chemical & Dye Corp.
SOAP-O-MATIC, soap dispenser, Hopkins Equipment Co.
SOAPRITE, soap, Lewis National Corp.
SOFTEE, pressure and vacuum filters, Hammond Laundry-Cleaning Machinery Co.
SOFTEY, diapers, Sani-Top Co.
SOILSORB, rag and overall detergent, Cowles Chemical Co.
SO-KLEEN PENETRANT, drycleaning detergent, Merson Products Co.
SO KLEEN SY, synthetic dry cleaning soap, Merson Products Co.
SOLAD, drycleaning soap, Murphy Sales Co.
SOLARINSE, optical whitener, Carlton Chemical Co., Inc.
SOLARSUDS, detergent, Carlton Chemical Co., Inc.
SOLBLUE, blue, Speare Co.
SOL BREAK, break powder, Lewis National Corp.
SOLBUMEN, spotting agent, Eaton Chemical & Dyestuff Co.
SOL-CLAR, filter powder, Murphy Sales Co.
SOLGON, paint remover, Lewis National Corp.
SOLID CURB, laundry, drycleaning extractors, American Laundry Machinery Co.
SOLIT-AYR, washers, tumblers, extractors, Ayr-Mor Machinery Co., Inc.
SOLIVE, soaps, Lewis National Corp.
SOLOZONE, sodium peroxide, E. I. du Pont de Nemours & Co., Inc.
SOL-SIL-ATE, alkali soap builder, Lewis National Corp.
SOL-SIL-ATE, special alkali compounds, Speare Co.
SOL SOUR, sour, Lewis National Corp.
SOL SUDS, soap, Lewis National Corp.
SOLTEX, drycleaning detergent, Riverside Mfg. Co.
SOLUBLE PINE OIL S-189, penetrant, Jacques Wolf & Co.
SOLUBON, textile dyeing assistants, American Aniline Products, Inc.
SOL-U-LUBE, neutral lubricant, Huntington Laboratories, Inc.
SOL-U-NESE, dry and wet spotter, Huntington Laboratories, Inc.
SOL-U-SOAP, drycleaning soap, Huntington Laboratories, Inc.
SOLVATONE, solvent, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp.
SOLVENT-STILL, distills synthetic solvents, Detrex Corp.
SOLVEX, spotting agent, Spix Products Co.
SOL-VIC, drycleaning unit for use with petroleum solvent, Vic Cleaning Machine Co.
SOLVINK, ink, paint, rust, blood stain remover, Greenville Chemical Co.
SOLVINOL, spotting soap, Keystone Aniline & Chemical Co., Inc.
SOLV-O-MARK, indelible marking pen, Mark-O Corp.
SOLVO-MISER, solvent recovery unit, Hoyt Mfg. Corp.
SOL-VO-RUST, sour, Thompson-Hayward Chemical Co.
SOLZYME, digestive agent, Lewis National Corp.
SONOMOR, safety and straight pins, wire garment hangers, William Prym, Inc.
SOURFLO, laundry sour, Wyandotte Chemicals Corp.
SOURTEC, sour, Wyandotte Chemicals Corp.
SOUTHDOWN, diapers, George Wood, Sons & Co.
SOUTHEASTERN, laundry textiles, Southeastern Textile Co.
SOUTHERN COLONEL, sponge press pads, Southern Mills, Inc.
SOVASOL 5, Stoddard petroleum solvent, Socony-Vacuum Oil Co., Inc.
SOVASOL 140, petroleum safety solvent, Socony-Vacuum Oil Co., Inc.
SPACEMASTER, stacker, Lewis-Shepard Products, Inc.
SPAN, emulsifier, wetting agent, Industrial Chemicals Dept. (Atlas Powder Co.)
SPARCO PASTE SOAP, coconut oil soap, West Side Corp.
SPARKETTE, detergent, Pennsylvania Salt Mfg. Co.
SPARKLEAN, drycleaning detergent, Cidex Corp.
SPARKLES, liquid coconut-oil soap, West Side Corp.
SPARKOLOR, detergent emulsifier, Cidex Corp.
SPARKS, rubber pedal pad for drycleaning presses, Sparks Pad Co.
SPARTAN, flat and block leather V belt, leather packings, Graton & Knight Co.
SPARTAN, nets, Egan Cotton Mills
SPEARE'S, blues, Lewis National Corp.
SPECIAL FINISH, starch, A. E. Staley Mfg. Co.
SPECIAL IRONER OIL, cleans, polishes and lubricates flatwork ironers, College Chemical Co.
SPECIAL SUPER RAMTITE 25, plastic refractory, Ramtite Co., Div. S. Obermayer Co.
SPECIALTY, garment bagger, Specialty Devices Co.
SPEED, brass fasteners, erasing shields, Speed Products Co., Inc.
SPEED-BAGGER, bagging device, Para-Lux Products Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

SPEEDEE, drying cabinets, Hammond Laundry-Cleaning Machinery Co.
SPEE-DEE, paint and grease remover, Adco, Inc.
SPEEDEX, extractor, Zephyr Laundry Machinery Co.
SPEEDISETS, sales and record forms, Moore Business Forms, Inc.
SPEED KING, tumblers, Hammond Laundry-Cleaning Machinery Co.
SPEEDLIFT, trucks, Lewis-Shepard Products, Inc.
SPEEDMASTER, rug scrubber, Certified Chemical & Equipment Co.
SPEEDMASTER, stackers and portable elevators, Lewis-Shepard Products, Inc.
SPEEDMATIC, compression tacker, Speed Products Co., Inc.
SPEEDPLUS, filter powder, Dicalite Div., Great Lakes Carbon Corp.
SPEED SET, variable numbering machines, American Numbering Machine Co.
SPEEDS-IT, prespotter, G & G Chemical Co.
SPEEDSTER, extractor, washers, Prosperity Co., Inc.
SPEEDUX DIPMASTER, water-repellent dip tanks, Devere Co.
SPEEDWAY, drycleaning, laundry and rug washers, A. A. Laundry Machinery Co.
SPEEDWAY, pressboard covers, folders, Speed Products Co., Inc.
SPEEDWAY, washer, tumblers, Industrial Laundry Machinery Co., Inc.
SPEEDY, washers, driers, water heaters, dry-cleaning machines, Speedy Washer Mfg. Co.
SPHINX, starch, Arabol Mfg. Co.
SPIRO, injection-type water heaters, David Stout & Sons
SPIX, prespotter, drycleaning and suede soap, hand cream, Spix Products Co.
SPORT PAX, window envelope for packaging of sport shirts, Time Savers, Inc.
SPORTBRIGHT, sport-shirt folding board, Key-Tag Checking System Co.
SPORT SHIRT, press unit, American Laundry Machinery Co.
SPORTSTER, shirt folder, Time Savers, Inc.
SPOTLESS, paste drycleaning soap, National Cleaners Chemical Co.
SPOTLESS CHLOROFORM, substitute for chloroform, Slater-Robbins Co. Inc.
SPOTLESS SIZE, synthetic sizing, Slater-Robbins Co. Inc.
SPOTOUT, spotting aids, Kennedy Products Co.
SPOTRIGHT, spotting agent, Allen & Vickers, Inc.
SPOT-X, prespotter, Huntington Laboratories, Inc.
SPRAY DRESS, leather finishes, Caled Products Co., Inc.
SPRAY-MASTER, spray gun, Cleaners Specialties Supplies Co.
SPRAY MIX, coating refractory, Mexico Refractories Co.
SPUNYLON, nylon net, Carson Textile Co., Inc.
SPURT, blood remover, Patek & Co.
SQUARE-HEAT, steel boiler, coal, oil, gas stoker, Kewanee Boiler Corp.
SQUAREWAY, curtain and blanket stretchers, Hopkins Equipment Co.
SQUIRES, reducing and regulating valves, C. E. Squires Co.
SS COMPOUND, washing compounds, Lewis National Corp.
STABILON, textile dyeing assistants, American Aniline Products, Inc.
STACK-EM, hanger rack, Time Savers, Inc.
STACKRITE, flatwork stacker, American Laundry Machinery Co.
STADLUBE, starch lubricant, Stadham Co., Inc.
STAD-SPUN, spun treated nylon cloth, Stadham Co., Inc.
STAD-TEX, treated nylon cloth, Stadham Co., Inc.
STADWAX, inner oil, powdered wax, Stadham Co., Inc.
STAG BRAND, press covers, aprons, bags, feed ribbons, Pittsburgh Waterproof Co.
STAGG, spotting aids, G & G Chemical Co.
STAIN-A-WAY, oxidized-stain remover, Warco Laboratories
STAINEX, laundry sour, Standard Chemical Works Co.
STAINPRUF, aqueous-type water repellent, Atlantic Stamproof Co.
STAINPRUF-DC, solvent-type water repellent, Atlantic Stamproof Co.
STAINPRUF-FLG, fur glazing compound, Atlantic Stamproof Co.
STAIZ, collar supports, Time Savers, Inc.
STAMPAGRAPH, indelible hot-iron transfers, Stampagraph Co., Inc.
STAMPATCH, cloth mender, StamPatch Magic Mender
STANCO, blues, sours, Standard Chemical Works Co.
STANDARD, extractor, Fletcher Works, Inc.
STANDARD, laundry, drycleaning machinery, Standard Laundry & Cleaning Machinery Co.
STANDARD, pin carrier, Keyes-Davis Co.
STANDARD, press pads, Bexillo Co.
STANDARD, record system, Standard Register Co.
STANDARD, shirt unit, Prosperity Co., Inc.
STANDARD, valves, W. M. Chace Co.
STANDARD FLAKE SOAP, NO. 1, soap, Standard Soap Co. of Camden
STANDARD KING, net pins, Keyes-Davis Co.
STANDCO, speed indicators, tachometers, Herman H. Sticht Co., Inc.
STAND-EZE, floor mat, Colonial Rubber Co.
STANDRUST, rust preventative, Standard Oil Co.
STANOX, hot-water built soap, John T. Stanley Co., Inc.
STANSO, cleaning chemicals, detergents, Standard Soap Co. of Camden
STANSO TEX OIL, sulphonated oils, turkey red oil, Standard Soap Co. of Camden
STANTEX, press and cover cloth, John T. Stanley Co., Inc.
STAPEX, starch, A. E. Staley Mfg. Co.
STAPLE, TAG-A-DAY, laundry marking tags, Boston Clip & Tag Co.
STAPL-TITE, marking tags, Liberty Marking Tag Co., Inc.
STA-PUT, lubricating oils, greases, E. F. Houghton & Co.
STAR, globe, angle, check valves, Kunkle Valve Co.
STARCHTEX, starch lubricant, Lewis National Corp.
STAR DOWN, diapers, George Wood, Sons & Co.
STA-RITE, collar supports, shoulder shields, trouser guards, tie holders, industrial aprons, Hodge, Farwell & Co.
STARR-BRITE, wetcleaning soap, Starr Soap & Chemical Co.
STARR-201, drycleaning soap, Starr Soap & Chemical Co.
STAR SERVICE, wire hangers, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
STARTEX, break compound, H. Kohnstamm & Co., Inc.
STATICOL, drycleaning soap, R. R. Street & Co., Inc.
STAZUF, collar supports, Alfred J. Brooks
STEAM-AIRE, garment finishers, Pantex Mfg. Corp.
STEAMAIRE, unit heater, Young Radiator Co.
STEAMASTER, boilers, return systems, Steamaster Automatic Boiler Co.
STEAM BOIL PLANT, boilers, Eclipse Fuel Engineering Co.
STEAM-FLEX, press connectors, Chicago Metal Hose Div., Flexonics Corp.
STEAM FLOW, rubber press pad, Newhouse Co.
STEAMIN STEVE, portable electric steam generator, Electric Steam Boiler Sales, Div. Wolf Co.
STEAM-PAK, packaged steam generators, York-Shipley, Inc.
STEAMTITE, flexible metal connector for laundry and pressing machines, American Brass Co., American Metal Hose Branch
STEEL-BILT, extractors, washers, B & G Machinery Co., Inc.
STEELCOTE, paint, varnishes, waterproofing, Steelcote Mfg. Co.
STEELE BIN, shirt carrier, J. W. Steele & Co.
STEELE GLIDER IRON, electric iron, J. W. Steele & Co.
STEELELOX, self-locking shirt band, J. W. Steele & Co.
STEEL-FORGED, casters, Rapids-Standard Co., Inc.
STEEM, neutral lubricant for steam spotting, Caled Products Co., Inc.
STEEM-ATIC, vertical water tube boiler, Kisco Boiler & Engineering Co.
STEIGLER MARKOGRAPH, marking machine, George Steigler Co.
STEIN, add-a-section finishers' tables, Lawrence M. Stein Co.
STEIN, cuff tacker, Stein Specialty Co.
STEINER, paper towels, soap dispensers, toilet soap, Steiner Sales Co.
STELLAR, filter, Infilco, Inc.
STERI-CHLOR, deodorizer and germicide, Wyandotte Chemicals Corp.
STERICLEAN, laundry sour, Johnson Chemical Industries, Inc.
STERLCO, pumps, traps, controls, regulators, Sterling, Inc.
STERLING, corn starch, Keever Starch Co.
STERLING, pumps, boiler, Sterling Engineering & Mfg. Co.
STERLING, salt, salt tablets, dispensers, International Salt Co.
STEVEDORE, JR., conveyor, Rapids-Standard Co., Inc.
STEVENSON, automatic counting machine, Stevenson Co.
STEWART-WARNER, instruments, Stewart-Warner Corp., Alemite Corp.
STIK-TITE, belt cement, Milwaukee Leather Belting Co.
STILSON GENUINE, wrench, Walworth Co.
STOD-SOL, Stoddard solvent, Anderson-Prichard Oil Corp.
STONEWALL, fans, Stonewall Sales Co.
STORAGE MASTER, fur and woolen storage, Walter Haertel Co.
STOVER, water softeners, pressure filters, Stover Water Softener Co.
STRATE, special drycleaning detergent, Spix Products Co.
STREAMLINE, chest-type flatwork ironer, American Laundry Machinery Co.
STREAMLINED LABELORS, moistening machine, Better Packages, Inc.
STREPENE, stripper, R. R. Street & Co., Inc.
STREETEX, drycleaning soap for chlorinated solvents, R. R. Street & Co., Inc.
STRESSITE, solid bronze machine parts, Amplex Div., Chrysler Corp.
STRIPALENE-O stripper, Keystone Aniline & Chemical Co., Inc.
STRIPEX, strippers, Package Chemical Co., Inc.
STRIP INK, ink remover, Slater-Robbins Co. Inc.
STRIP-IT, powdered stripper, Kem Laboratories
STRIP-KLEEN, liquid stripper, Kem Laboratories
STRIPP, powdered stripper and bleach, G & G Chemical Co.
STRIPPET, strippers, Package Chemical Co., Inc.
STRIPPIT, stain remover, stripper, Kliegman Bros., Inc.
STRIPPOLYTE, dye remover, Slater-Robbins Co. Inc.
STRIP-STICK, stripper, National Cleaners Chemical Mfg. Co.
STRIPTEX, powdered stripper, Hood Chemical Co., Inc., Crescent Div.
STROMBERG, time clocks, Stromberg Time Corp.
STRONG, steam specialties, Strong, Carlisle & Hammond Co.
STURDI-BILT, metal laundry washer, Jensen Mfg. Co.
STYLOGRAMS, simulated paper handkerchief printed with sales message, Nashua Gummed & Coated Paper Co.
SUBALOX, lead and aluminum glimmer paint, Subox, Inc.
SUBMERSION, horizontal gas-fired boilers, horizontal gas-fired water heaters, David Stout & Sons
SUBOX, anti-corrosive paint, Subox, Inc.
SUDS, paste drycleaning soap, Adco, Inc.
SUDSO, soap builder, Washine National Sands, Inc
SUDSYN, sudsy synthetic solvent, E. F. Drew & Co., Inc.
SUEDECARE, leather cleaning process, Suede-care, Inc.
SUITANDRESS, hangers, Cleaners Hanger Co.
SULFACO, wetcleaner, R. R. Street & Co., Inc.
SULFOSUDS, soapless soap, Merson Products Co.
SULFSTAD, soap, Stadham Co., Inc.
SULPHOGEN, spotting compound, Riverside Mfg. Co.
SULPHOTEX, detergent, soaps, Keystone Aniline & Chemical Co., Inc.
SULUBOL, detergent, Apex Chemical Co., Inc.
SULVA, soapless wet cleaner, G & G Chemical Co.
SUN, paste filter soap, Adco, Inc.
SUNBEAM, automatic clothes-lifting basket liner, Cleaners Specialties Supplies Co.
SUNBEAM, blue, Speare Co.
SUN FLUORESCENT, lighting fixtures, Sun Fluorescent Electric Co.
SUN-PROOF, paint, Pittsburgh Plate Glass Co., Paint Div.
SUNSHINE, tie-forms, Sunshine Necktie Forms
SUPER, laundry machinery, Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
SUPERBELT, leather belting, Philadelphia Belting Co.
SUPERBILD, soap builder, Solvay Sales Div., Allied Chemical & Dye Corp.
SUPERCHLOR, bleach, Patterson Laboratories, Inc.
SUPER-CLEAR, rust-removing sour, Johnson Chemical Industries, Inc.
SUPER DETERGENT, detergent-type drycleaning soap, National Cleaners Chemical Mfg. Co.
SUPER DRY-O-MATIC, signal and alarm control for tumblers, Rosenthal Mfg. Co.
SUPER-ELCONITE, high-capacity greensand zeolite, Elgin Softener Corp.
SUPEREX, sheet block and pipe insulations, Johns-Manville
SUPERFINE, laundry starch, Washine National Sands, Inc.
SUPER FUMEPROOF, interior enamel, A. C. Horn Co., Inc.
SUPERGAUGE, gauges, U. S. Gauge Div., American Machine & Metals, Inc.
SUPER HIDING, interior white, U. S. Gutta Percha Paint Co.
SUPER ILLUMINATORS, incandescent lighting equipment, Edwin F. Guth Co.
SUPERIOR, blues, sours, Superior Products Co.
SUPERIOR, crush-proof sorting hooks, V & W Equipment Co.
SUPERIOR, marking machines, Textile Machinery Co., Inc.
SUPERIOR, rubber-tired wheels and casters, Jarvis & Jarvis, Inc.
SUPERIOR, steam generators, Superior Combustion Industries, Inc.
SUPERKLEEN, laundry alkali, Washine National Sands, Inc.
SUPER-MATIC, boilers, Eclipse Fuel Engineering Co.
SUPER MERCURY, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.
SUPER MULTIFLEX, calcium carbonate, Diamond Alkali Co.
SUPER OILITE, ferrous-base lubricating bearings, Amplex Div., Chrysler Corp.
SUPERPACKING, leather packings, Philadelphia Belting Co.
SUPER-PLASTIC, refractory materials, A. P. Green Fire Brick Co.
SUPER PURGO, soap builder, Minnesota Chemical Co.
SUPER RAMTITE 22, plastic refractory, Ramtite Co., Div. S. Obermayer Co.
SUPER SERVICE, press and ironer pads and padding, Progressive Textile Mfg. Co.
SUPERSILICATE, detergent, Diamond Alkali Co.
SUPER SILVERTOP, steam traps, strainers, traps, V. D. Anderson Co.
SUPER-SOL, prespotter, National Cleaners Chemical Mfg. Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

SUPER-SPEED, drycleaning tumbler, American Laundry Machinery Co.
SUPER STEEL, pins, safety pins, William Prym, Inc.
SUPER SYLON, ironer, American Laundry Machinery Co.
SUPER-TEX, detergent, Nu-Pro Mfg. Co.
SUPER-VAC, rug cleaning suction machine, American Laundry Machinery Co.
SUPER-WEAR, press covers, Gustin-Kramer Co.
SUPER X, break powder, Speare Co.
SUPER-ZARMO, air-driven laundry presses, American Laundry Machinery Co.
SUPER-ZARMOETTE, air-driven laundry presses, American Laundry Machinery Co.
SUPER-ZORIC, drycleaning unit, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
SUPREME, laundry starch, Clinton Foods, Inc.
SUPREME, water softeners and filters, Bruner Corp.
SURE-FLUO, ironer wax, Johnson Chemical Industries, Inc.
SURE-HOLD, paper specialties, wrappers, Sure-Hold Div., Nashua Gummed & Coated Paper Co.
SURELOC, aluminum collar and cuff fasteners, collar buttons, Sureloc Paper Clip Co.
SURE-RETURN, condensation pumps, Chicago Pump Co.
SURE-RINSE, diaper sour, Johnson Chemical Industries, Inc.
SURFADYNE, textile leveler, Essential Chemicals Co.
SURFALUX, resin emulsion paint, Vita-Var Corp.
SURFAX, wetting agent, E. F. Houghton & Co.
SURFEX, calcium carbonate, Diamond Alkali Co.
SURFEX MM, calcium carbonate, Diamond Alkali Co.
SUSPENSO, calcium carbonate, Diamond Alkali Co.
SUSSMAN, steam iron, Automatic Steam Products Corp.
SUZIE-Q, garment finisher and fabric conditioner, Excelsior Machinery Co.
SWAGELOK, reducer fitting for tubing, Crawford Fitting Co.
SWAN, valves, Klipfel Mfg. Co.
SWANEE, cover duck, Minnesota Chemical Co.
SWANSDOWN, calcium carbonate, Diamond Alkali Co.
SWATCH WAY, spotting course, Delray School of Spotting Instruction
SWIFT, soaps, Swift's Technical Laundry Service Division
SWINGLINE, staples, staplers, Speed Products Co., Inc.
SWIVELOADER, box or car loaders, Stephens-Adamson Mfg. Co.
SWIV-O-HOOK, hangers, Garment Hanger Co.
SYLON, chest-type flatwork ironer, American Laundry Machinery Co.
SYLVANIA, cellophane, Sylvania Div., American Viscose Corp.
SYNASOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
SYNCHRO-VALVE, diaphragm control valve, Bristol Co.
SYNDEET, insecticide, U. S. Rubber Co.
SYNDET, synthetic detergent, West Side Corp.
SYNFLEX, outside and interior enamel, Midland Paint & Varnish Co.
SYNOTERGE, drycleaning soap for chlorinated solvents, Rayochem Products Co.
SYNRENE, O.D., concentrate for synthetic drycleaning, Wonder Wash Corp.
SYNRENE 210, drycleaning detergent, Wonder Wash Corp.
SYNSO, synthetic drycleaning soap, Nu-Pro Mfg. Co.
SYNSUDS, soap, H. Kohnstamm & Co., Inc.
SYNSUDS, synthetic soap powder, Trico Chemical Div., Tri-State Equipment Co.
SYNTHEEL, liquid filter soap, National Cleaners Chemical Mfg. Co.
SYNTHESOL-100, drycleaning soap for synthetic solvent, Patek & Co.
SYNTHITE, zeolite, Hungerford & Terry, Inc.
SYNTHO, soap for chlorinated solvents, National Cleaners Chemical Mfg. Co.
SYNTH-O-SAVER, solvent recovery unit, Detrex Corp.
SYNTHOSOL, neutral wet spotting agent, Allen & Vickers, Inc.
SYNTHO SUDS, synthetic soap powder, West Side Corp.
SY PENETRANT, drycleaning detergent, Merson Products Co.

T

TDL, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
T.S.R., stain remover, Package Chemical Co., Inc.
TABASCO, water heaters, Kewanee Boiler Corp.
TACO, heaters, condensers, hot-water systems, Taco Heaters, Inc.
TAD, insecticides, deodorants, Tad Chemical Co., Div. Acme Industrial Compounds Corp.
TAD, tags, Boston Clip & Tag Co.
TAG, recording instruments, all types, C. J. Tagliabue Div., Portable Products Corp.
TAG-A-DAY, laundry marking tags and pins, Boston Clip & Tag Co.
TAGGER, sewing machine for tagging, Chandler Machine Co.
TAG-O-LECTRIC, makes marks and attaches tags, Textile Marking Machine Co., Inc.
TAG-O-MATIC, tag making and marking machine, Textile Marking Machine Co., Inc.
TAHOE, laundry blue, Patek & Co.
TAKALAB, concentrated enzymic digestant, Takamine Laboratory, Inc.
TA-KARA-HUKS, drycleaning specialty for cleaning drapes with hooks attached, Take-Care Mfg. & Sales Co.
TAKIMERSE, enzymic digestant for bath, Takamine Laboratory, Inc.
TALASE, desizing agent, Takamine Laboratory, Inc.
TALLEY, belt- and motor-driven wooden washers, Talley Laundry Machinery Co.
TALLY, hand counter, Denominator Co., Inc.
TAN-AN-INK, ink remover, Package Chemical Co., Inc.
TANSOL, tannin stain remover, Greenville Chemical Co.
TAN-X, semi-wet stain remover, National Cleaners Chemical Mfg. Co.
TARBONIS, protective skin cream, Tarbonis Co.
TARGO, tar remover, A. L. Wilson Chemical Co.
TASCO, alkali (soap builder), Lewis National Corp.
TASCO TINT, blue, Lewis National Corp.
TAYLOR, stokers, American Engineering Co.
TEJAX, valve indicator, Tejax Engineering Corp.
TELEFLEX, overhead rotary conveyor, Teleflex, Inc.
TELL BOARD, bulletin board, Mine Safety Appliances Co.
TELLEVEL, bin level control switches, Stephens-Adamson Mfg. Co.
TEL-U-VISION, transparent garment bags, Mehl Mfg. Co.
TEMPLETON, steam traps, Sterling Engineering & Mfg. Corp., Templeton Mfg. Co.
TEN-MINIT, bleach, Warco Laboratories
10 & 20, shirt bins, Time Savers, Inc.
TEN 22, laundry and drycleaning chemicals and detergents, Roberts-Modaber Co.
TERGESSOL, paint and grease remover, Slater-Robbins Co., Inc.
TERGIT, spotting compound, Riverside Mfg. Co.
TERGITOL, wetting agent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
TER-TEX, drycleaning concentrate, Spix Products Co.
TETRACLEAN, synthetic drycleaning unit, Ayr-Mor Machinery Co., Inc.
TETRA-NOVAL, wetcleaning soap, Keystone Aniline & Chemical Co., Inc.
TETRAPOL, spot washing, tar removal, General Dyestuff Corp.
TETRA-SAN, liquid detergent, Huntington Laboratories, Inc.
TEX-ALL, rug cleaner, Certified Chemical & Equipment Co.
TEXANA, laundry soap, Texas Soap Mfg. Corp.
TEX-IT, upholstery cleaner, Certified Chemical & Equipment Co.
TEXTITE, industrial detergent, H. Kohnstamm & Co., Inc.
TEXIZE, sizing preparation, Package Chemical Co., Inc.
TEXO, laundry soap, E. F. Drew & Co., Inc.
TEXSCOUR, low-titer neutral red-oil soap flakes, Armour & Co.
TEXSOL, drycleaning detergent, Riverside Mfg. Co.
TEXTAG, lot system of production control, Carman & Co., Inc.
TEXTICIDE M, aqueous-type fungicide, Atlantic Stainproof Co., Inc.
TEXTICIDE MC, solvent-type fungicide, Atlantic Stainproof Co., Inc.
TEXTO, glazed thread, Fleischer Mills, Inc.
TEXTURE-SAN, fabric conditioner, Huntington Laboratories, Inc.
TEXZYME, protein-removing desizing agent, Fabst Sales Co.
THERMO-HUMIDIGRAPH, combination temperature and humidity recorder, Bristol Co.
THERMOTEX, cover cloth, H. Kohnstamm & Co., Inc.
THERMOTEX "S." heat-resistant cover cloth, H. Kohnstamm & Co., Inc.
THERMO-VENTO, drying tumbler, American Laundry Machinery Co.
T-32, guntacker, Arrow Fastener Co.
THOR, intermediate quality, stiff mud firebrick, Mexico Refractories Co.
THORAL, rug shampoo, Turco Products, Inc.
THO-RO, pearl buttons, Tho-Ro Products, Inc.
3B, automatic synthetic drycleaning unit, Prosperity Co., Inc.
3-8 DYNAMITE, soap, Rome Soap Mfg. Co.
302 5C, cover cloths, Whitehouse Products, Inc.
3-STAR, leather and waterproof leather belting, Charlotte Leather Belting Co.
THREE STAR, pads, padding, puff iron sets, Baltimore Specialties Co.
328, ironer oil, John P. Lynch Co.
THRIFTEX, drycleaning soap, detergent and emulsifier, Pennsylvania Salt Mfg. Co.
THRIFTIES, collar supports, M. H. Gronauer Co.
THURSTEND, drinking fountains, Crane Co.
TI-BAG, cover for Ti-Rak, Para-Lux Products Co.
TIBRODE, cotton flannel padding and nets, Tingue, Brown & Co.
TICKETAG, drycleaning identification system, "TT" Ticke-Tag Corp.
TICOSTEAM, packaged steam generator, Titusville Iron Works Co., Div. Struther Wells Corp.
TICOTHERM, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
TIE-PAK, tie racks and bags, Phoenix Products Co.
TIGER, paste-type detergent, Adco, Inc.
TILTOR, shirt unit and shirt presses, American Laundry Machinery Co.
TIME-O-MATIC, timers for extractors, Rosenthal Mfg. Co.
TIME SAVERS, garment racks, trouser guards, shirt envelopes, Time Savers, Inc.
TI-ME-TER, laundry equipment timer, Bildwell Mfrs.
TIMKEN, roller bearing, tubings, Timken Roller Bearing Co.
TINDECK, double-face padding, Tingue, Brown & Co.
TI-NI-TER, indicating timer, Bildwell Mfrs.
TI-RAK, necktie hanger, Para-Lux Products Co.
TITANIC, stripper, Spix Products Co.
TITE-FLEX, flexible metallic tubing, industrial and finishing filters, Titeflex, Inc.
TITESEAL, gasket and joint sealing compound, Radiator Specialty Co.
TOKEN-TAGS, marking tags, Pre-Marked Strip Tag Co.
TOLEDO, scales, Toledo Scale Co.
TOPAZ, high-titer built soap chips, Armour & Co.
TOP FLITE, rubber belt, Webb Belting Co.
TOPS, drycleaning detergent, Nu-Pro Mfg. Co.
TORK, time switches, Tork Clock Co., Inc.
TORNADO, blowers, industrial vacuum cleaners, floor machines, Breuer Electric Mfg. Co.
TORRIDOR, blower unit heater, Trane Co.
TOTALUME, aluminum paint, Wilbur & Williams Co.
TOTRUST, rust-inhibitive paint, Wilbur & Williams Co.
TOUCH, volatile dry spotter, G & G Chemical Co.
TRAN-CEL-SEAL, cellulose tape, Gummed Tape & Devices Co.
TRANSAXIL, electronic flame-guard safety pilot, Lee B Mettler Co.
TRANSITE, asbestos-cement pipe, Johns-Manville
TREET-O-UNIT, constant rate proportioning pump, Proportioneers, Inc.
TRI, fur cleaning fluid, Walter Haertel Co.
TRIAD, alkali and emulsion cleaning compounds, Detrex Corp.
TRIAD E, trichlorethylene solvent, Detrex Corp.
TRI-CLAD, motors, General Electric Co.
TRICLENE, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.
TRICO, air guns, fuse pullers, renewable fuses and elements, Trico Fuse Mfg. Co.
TRICO, wetcleaning sour, Trico Chemical Div., Tri-State Equipment Co.
TRIMERSE, enzymic digester, Trico Chemical Div., Tri-State Equipment Co.
TRIO, alkali compounds, bleach, boiler compound, Trio Chemical Works, Inc.
TRIPLE-A, paints, Quigley Co., Inc.
TRIPLE "M." marking and tagging machines, Triple "M" Inc.
TRIPLEX, 140" drycleaning units, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
TRISOL, stain remover, Eaton Chemical & Dyestuff Co.
TRIUMPH, built non-ionic synthetic detergent, Armour & Co.
TRIWAY, fur finishing machine, Walter Haertel Co.
TRI X, fumigant, Walter Haertel Co.
TROPELITE, paint, Tropical Paint & Oil Co.
TROPICAL, nut shells for fur cleaning, Bernard Strotta Co.
TROPILUX, white enamel, Tropical Paint & Oil Co.
TROUSER-FORMR, pants shaper, Bill Glover, Inc.
TROUS-GARD, trouser guard, Para-Lux Products Co.
TROY, laundry machinery, Troy Laundry Machinery Div., American Machine & Metals, Inc.
TROY-ENBERG, steam engines, generators, Troy Engine & Machine Co.
TROY-MERCURY, drycleaning unit, Troy Laundry Machinery Div., American Machine & Metals, Inc.
TRUCLEEN, petroleum solvent for drycleaning, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
TRU COLOR, dyeing, Tru Color Dye Works
TRUFOLD, shirt folding machine, J. W. Steele & Co.
TRUFORM, steam-air garment finisher, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
TRUMATIC, flatwork folder, American Laundry Machinery Co.
TRUMP, spot remover, Spix Products Co.
TRU-SHEEN, CONCENTRATE, drycleaning soap, Tru-Sheen Corp.
TT TICKE TAG, identification systems, "TT" Ticke-Tag Corp.
TUBE-O, trouser guard, Garment Hanger Co.
TUB-TYPE, trucks, Market Forge Co.
TUFF HIDE, padding, Pittsburgh Waterproof Co.
TUFFLEX, padding, Wood Conversation Co.
TUFF-TEX, metal press pads, X. S. Smith, Inc.
TUMBOLITE, lighting fixture for open-end tumblers, Donnell Co.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

TURBO ACTION, washers, Zephyr Laundry Machinery Co.
TURBO GUN, spotting gun, Elliot Babe Mfg. Co.
TURBO-JET, steam canopy, Hopkins Equipment Co.
TURBO-VAC, single press vacuum system, Pantex Mfg. Co.
TURBO-VACUUM COMPRESSOR, centrifugal refrigeration, Trane Co.
TURCO, insecticides, germicides, Turco Products, Inc.
TURRET, water supply pump, Yeomans Bros. Co.
TUWAY, steamers, Wright-Austin Co.
TWEEN, emulsifier, wetting agent, Industrial Chemicals Dept. (Atlas Powder Co.)
20th CENTURY, needle bearing, Roller Bearing Co. of America
20-L, laundry starch, Clinton Foods, Inc.
TWENTY-TWENTY, front-loading washer, American Laundry Machinery Co.
TWIN CONTACT CONTROLS, controls, regulators, gauges, Perfex Corp.
TWINMATIC, washer and extractor, Imperial Laundry Machinery Co.
TWINPLEX, fur cleaning drum and cage, Walter Haertel Co.
TWIN-PRESS, drycleaning press, Reliable Steam Pressing Machine Service, Inc.
TWIN RAPID, automatic shirt press, general purpose press, Reliable Steam Pressing Machine Service, Inc.
TWINTAINER, extractor, Fletcher Works, Inc.
TWIN-TEX, metal press pads, N. S. Smith, Inc.
TWIST-EMS, hanger combiners, Germain's Twist-Ems Div.
TWISTEMS, hanger combiners, H. F. Hanscom & Co.
TWITCHELL, emulsifing bases, Emery Industries, Inc.
249, stripper, Patek & Co.
2GAV, compressor plant, Westinghouse Air Brake Co., Industrial Products Div.
209, general formula, R. R. Street, & Co., Inc.
TY-BORDS, forms for pressing neckties, Joe L. Winner
TYCO, stick machine cleaner for hot irons, presses, Tyson Sales Co., Inc.
TYGON, plastics, U. S. Stoneware Co.
TYMIT, timers, Tork Clock Co., Inc.
TY-ON, nylon press covers, F. H. Bonn Co.
TYPE 16, 16+, 16+2, 16R, soap builders, Turco Products, Inc.
TYUPS, bundle tyers, Tie Co.

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UCON, lubricants (synthetic oil and grease), Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
UCON, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.
U-DOR-A, spot remover, Nu-Pro Mfg. Co.
ULTRA-LITE, sour, Standard Chemical Works Co.
ULTRAL-SOL, soap builder, Thompson-Hayward Chemical Co.
ULTRA-SPEED, drying tumbler, American Laundry Machinery Co.
ULTRA-WITE, fluorescent compound, whitener, H. Kohnstamm & Co., Inc.
UNAFLOW, steam engines, Ames Iron Works
UNA RETURN, ironer, Zephyr Laundry Machinery Co.
UNIFLO, drycleaning washer, Western Laundry Machinery Co.
UNIFOAM C, rug and upholstery cleaning detergents, Funnel Corp.
UNILEVER, cylinders, Zephyr Laundry Machinery Co.
UNIPRESS, air-driven laundry presses, Unipress Co.
UNITED, washable uniforms, United Cotton Goods Co., Inc.
UNITHERM, unit heaters, Clarage Fan Co.
UNITHRIFT, complete drycleaning unit, Butler Mfg. Co.
UNIT KLEEN, drycleaning washer-extractor, Unit Wash Co.
UNIT WASH, laundry washer-extractor, Unit Wash Co.
UNIVALVE, valves, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
UNIVERSAL GIANT, compression and flexible couplings, shaft hangers, T. B. Wood's Sons Co.
UNIVERSAL SPEED-FEED, device for feeding continuous forms through typewriters and billing machines, Egry Register Co.
UNIVERSAL STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.
UNLOADING CASCADE, laundry washer, American Laundry Machinery Co.
UNOX, penetrant for fire-fighting, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
URBAN, truck bodies, Montpelier Mfg. Co.
U-SAN-O, mothproofing, American Mothproofing Co.
U.S., stoneware, U. S. Stoneware Co.
U. S. MODEL 318-1, U. S. Blind Stitch Machine Corp.
U. S. KOGLON, press pads, sponge, Newhouse Co.
USTEX, wire and cable, U. S. Rubber Co.

V

V-C, feed ribbons, textiles, Virginia-Carolina Laundry Supply Co.
V.D., spotter, Adco, Inc.
V & W, assorting reels, V & W Equipment Co.
VALETERIA, drycleaning and laundry vendor, U. S. Hoffman Machinery Corp.
VALETOR, drycleaning equipment, U. S. Hoffman Machinery Corp.
VANETTE, truck bodies, Vanette Div., Universal Sales, Inc.
VANITE, liquid detergent, Adco, Inc.
VAPOR-CLARKSON, steam generating unit, Steam Engineering & Sales Co.
VAPOSAVER, combination tumbler, reclaimer, U. S. Hoffman Machinery Corp.
VAULTMASTER, fur cleaning and storage equipment, Huebsch Div., American Laundry Machinery Co.
VEE-LOK, clutch facings, Raybestos-Manhattan, Inc.
VEE-THREE, paste drycleaning soap, Riverside Mfg. Co.
VEGETABLE IVORY, buttons, Eureka Button Co.
VELAN UNIVERSAL, steam trap, Velan Engineering Co.
VELCO, marking ink and sets, Ink-O Products Co.
VELOCITY DRAINER, steam trap (float), W. M. Acker Organization, Inc.
VELOCITY STEAM, steam system, Velocity Steam Production Engineering Co.
VELVET RAINBOW, combination starch, Huron Milling Co.
VELVET WHEAT, wheat starch, Huron Milling Co.
VELVO, wetcleaning soap, Davies-Young Soap Co.
VERSI, laundry and wetcleaning textile finishing compound, John T. Stanley Co., Inc.
VERTEX, low-titer soap flakes, Swift & Co.
VIBRAMOVER, fur cleaning table, Walter Haertel Co.
VIBRA-SORBER, pipeline vibration absorber, Chicago Metal Hose Div., Flexonics Corp.
VIC, drycleaning washers, drying cabinets, Vic Cleaning Machine Co.
VIC 90, synthetic solvent drycleaning machine, Vic Cleaning Machine Co.
VICTOR, straight pins, Risdon Mfg. Co.
VICTOR, wheat starch, Keever Starch Co.
VICTORY, blue, Minnesota Chemical Co.
VICTORY, drycleaning soaps, Patek & Co.
VICTORY, fur cleaning fluid, Bernard Sirotta Co.
VICTORY, laundry marking tags, Tagit Co.
VIGIL, diaper antiseptic and deodorant, Patek & Co.
VIKE, pipe joint compound, Keystone Lubricating Co.
VIKING, intermediate quality, dry press firebrick, Mexico Refractories Co.
VIKING, pumps, Viking Pump Co.
VIM, leather packing, belting, E. F. Houghton & Co.
VIM, steam engines, Ames Iron Works
VIRGILINA, apron cement, blue, marking pen points, Virginia-Carolina Laundry Supply Co.
VIRGINIA GREENSTONE, non-skid floor surfacing material, soaking and rinsing tubs, wetcleaning tables, Virginia Greenstone Co., Inc.
VISCOR, filter, Weston Electrical Instrument Corp.
VITA-CAL, self-sealing flat wall finish in semi-paste form, Vita-Var Corp.
VITA-CLOR, mildewproofing, weatherproofing finishes, Vita-Var Corp.
VITA-LUX, synthetic white enamel spar varnish, Vita-Var Corp.
VITA-VAR, paints, enamels, varnishes, Vita-Var Corp.
VITEX, drycleaning soaps, Patek & Co.
VIVIDOL C1, synthetic drycleaning detergent, Stamford Chemical Co.
VIVIDOL 11, petroleum drycleaning detergent, Stamford Chemical Co.
VIVIPRESS, finishing compound, steam treating chemical, Stamford Chemical Co.
VOKES, air cleaners, filters, separators, strainers, Drico Industrial Corp.
VORCLAY, bentonite clay, American Colloid Co.
VOLTEX, spotting agent, Spix Products Co.
VOL-U-METER, flow-responsive proportioning pump, Proportioneers, Inc.
VORCLONE, extractors, tumbler, U. S. Hoffman Machinery Corp.
VORSEC, extractors, drycleaning units, U. S. Hoffman Machinery Corp.
V-S DRIVE, all-electric adjustable speed drive for a.c. circuits, Reliance Electric & Engineering Co.
VULCAN, cover cloth, Pittsburgh Waterproof Co.
VULCAN, stokers, Canton Stoker Corp.
VULCATEX, caulking and glazing compound, A. C. Horn Co., Inc.

W

W.D.P., wet or dry prespotter, Warco Laboratories
W.L., drycleaning detergents, Caled Products Co.
W. P. B., wet and dry paint remover, National Cleaners Chemical Mfg. Co.
WALCO, pipe wrench, Walworth Co.
WALDORF, paper hangers, Waldorf Co.
WALLHIDE, paint, Pittsburgh Plate Glass Co., Paint Div.
WALSEAL, threadless bronze fitting, Walworth Co.
WALSH, diaphragms, gaskets, packings, pump valves, Walsh Packing Co.
WAREHOUSER, industrial trucks, Rapids-Standard Co., Inc.
WARREN, leather belting, cement, dressing, Warren Belting Co., Inc.
WASH-A-WAY, washer, Cook Machinery Sales Co.
WASHEX, combination washer-extractor, Fabric Laundry & Dry Cleaning Machinery Corp.
WASHINE, bleach (sodium hypochlorite), Washine National Sands, Inc.
WASHINITE, detergent, Washine National Sands, Inc.
WASHMOR, nylon laundry nets, Tingue, Brown & Co.
WASHOMETER, washing machine recorder, Huebsch Div., American Laundry Machinery Co.
WASHTEX, overall compound, Thompson-Hayward Chemical Co.
WATCH-DOG, water meters, Worthington Pump & Machinery Corp.
WATCOCELL, asbestos pipe covering, blocks, Ruberoid Co.
WATERPROOFON PBK, water repellent, Apex Chemical Co., Inc.
WATERSPAR, polishing wax, Pittsburgh Plate Glass Co., Paint Div.
WATERWAY, laundry combination washer-extractor, Pantex Mfg. Co.
WEAVE-BAC, rewarving process, Weave-Bac
WEDGE-LOCK, steel shelving, Berger Mfg. Div., Republic Steel Corp.
WEDGEWAX, anti-skid floor wax, Pest Control Equipment Co.
WEE-SCOT, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
WELDMASTER, platform, Lewis-Shepard Products, Inc.
WELPCO, steam valves, discs, Western Laundry Press Co.
WERKBRITE, neutral tallow flakes, powder, Allen B. Wrisley Co.
WERK'S COLDWATER, built red-oil soap, Allen B. Wrisley Co.
WESCLENE, liquid break, West Side Corp.
WESCO, paint and grease remover, West Side Corp.
WESCOTT, shirt packaging supplies, Wescott Products Corp.
WESFORM, safety chloroform, West Side Corp.
WEST COAST, extractors, washers, ironers, curtain stretchers, West Coast Laundry Machinery Co.
WESTERN, deep well turbine pumps, deep well turbine pressure systems, Western Pump Co., Ltd.
WESTERN, laundry washers, extractors, drycleaning washer, Western Laundry Machinery Co.
WESTINGHOUSE, air compressors, Westinghouse Air Brake Co., Industrial Products Div.
WESTINGHOUSE, lamps, Westinghouse Electric Corp.
WESTON, instruments, Weston Electric Instrument Corp.
WESTTEX, soap builder, West Side Corp.
WESTVACO, chlorinated solvent (synthetic), Westvaco Chemical Div., Food Machinery & Chemical Corp.
WET-AGE, wet spotter, G. & G. Chemical Co.
WETAWAY, water repellent, Carman & Co., Inc.
WET-CLEAN-EZE, wetcleaning soap, Rayochem Products Co.
WETKLENE, liquid wetcleaning soap, Allen & Vickers, Inc.
WET-O-DRY, paint remover, Merson Products Co.
WETSIT CONC., wetting agents, Jacques Wolf & Co.
WETSOL, wet spotter, Nu-Pro Mfg. Co.
WETSPOT, wet spotter, Adco, Inc.
WETSYN, synthetic detergent, E. F. Drew & Co., Inc.
WETTEX, wetcleaner, Essential Chemicals Co.
WETTSPOTER, paint, oil and grease remover, Riverside Mfg. Co.
WHALEBONE, leather and waterproof leather belting, Charlotte Leather Belting Co.
WHEATEX, combination starch, Huron Milling Co.
WHEAT-N-CORN, combination starch, Keever Starch Co.
WHEEL, starch, A. E. Staley Mfg. Co.
WHEEL-EZY, hand truck, Rapids-Standard Co., Inc.
WHIRL-SORT, sorting reel, Franklin Mfg. Co.
WHIRLWIND, extractor, Fletcher Works, Inc.
WHITE CAP, drycleaning soap, Midland Color & Chemical Co.
WHITE CAP, laundry blue, Beach Soap Co.
WHITEHOUSE, nylon cover cloth, flannel, press covers, sewing thread, flatwork ironer cord and tape, Whitehouse Products, Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

WHITE HOUSE, wheat starch, Huron Milling Co.
WHITEHOUSE BLUE STREAK, nylon nets, Whitehouse Products, Inc.
WHITEHOUSE ROK RIB, nylon nets, Whitehouse Products, Inc.
WHITEINT, fluorescent dye addition to soaps, Carlton Chemical Co., Inc.
WHITE LABEL, medium-titer neutral soap, Beach Soap Co.
WHITE RIBBON, tallow soap chips and powder, Swift & Co., Inc.
WHITE STAR, drycleaning paste soap, R. R. Street & Co., Inc.
WHITLOCK, preheaters, Whitlock Mfg. Co.
WHITSON SYSTEM, boiler return systems, Healy-Ruff Co.
WICK, tapes and braids, Wick Narrow Fabric Co.
WILLIAMS, laundry and drycleaning machinery, Williams Laundry Machinery Co., Inc.
WILLIAMS & DAVIS, boilers, condensation return systems, return units, boiler feed-water systems, Williams & Davis Boiler & Welding Co., Inc.
WILLIS-MILCO, rug beater, A. O. Miller Co.
WINDO, cedarized storage bag, Lincoln Bag Co.
WING CLAMP, collar support, Para-Lux Products Co.
WING-GARDS, hanger shields, Para-Lux Products Co.
WING-LOCK, collar support, Para-Lux Products Co.
WING-ROLL, collar support, Para-Lux Products Co.
WINKLER, stokers, U. S. Machine Corp.
WIZARD, extractors, Hammond Laundry-Cleaning Machinery Co.
WIZARD, laundry net, Southern Mills, Inc.
WOLF, electric cloth cutters, fabric drills, Wolf Machine Co.
WOLKIND, formal-wear rental service, Wolkind Bros.
WOLVERINE, synthetic drycleaning machine, Wolverine Sales Co.
WONDER WASH, O. D., wetcleaning detergent, Wonder Wash Corp.
WONDER WORKER, sewing machine, U. S. Blind Stitch Machine Corp.
WONDRESS, flatwork ironer pads, Southern Mills, Inc.
WOOL, soap, Swift & Co.
WORKHORSE, rug scrubber, Certified Chemical & Equipment Co.
WORK SAVERS, drycleaning truck, Time Savers, Inc.
WOVERITE, cover cloth, padding, Lewis National Corp.
WRAP-O-MATIC, automatic paper cutting and wrapping machine, Rosenthal Mfg. Co.
WULPRESS, wool press cloth and surface cloth, nylon and wool press and surface cloth, Arms Textile Mfg. Co.
WYANDOTTE, detergents, sours, Wyandotte Chemicals Corp.
WYTEN, soap builder, Turco Products, Inc.
WYTINO, stripper, Kuehne Chemical Co.

X

X. L., built synthetic detergent, Armour & Co.
XANNO, indelible ink (no heat), Applegate Chemical Co.
X-PANDO, collar supports, Time Savers, Inc.
XTRA, nylon press cloth, X. S. Smith, Inc.

Y

YA-DE, mothproof, Crossland Mfg. Co., Inc.
YARMOR, pine oil, Hercules Powder Co.
YARWAY GUN PAKT, expansion joints, Yarnall-Waring Co.
YARWAY HI-LO ALARM, water columns, Yarnall-Waring Co.
YARWAY-HI-LO-GRAPH, liquid level recorder, Yarnall-Waring Co.
YARWAY IMPULSE, steam traps, Yarnall-Waring Co.
YARWAY INVOLUTE, spray nozzles, Yarnall-Waring Co.
YARWAY SEATLESS, blow-off valves, Yarnall-Waring Co.
YARWAY SESURE INCLINED, water gauges, Yarnall-Waring Co.
YELLOWGO, liquid dye-reducing agent, A. L. Wilson Chemical Co.
YELLOW REMOVER, dye stripper, Patek & Co.
YELLOW SPECIFIC NO. 15, liquid stripper, Carman & Co., Inc.
YELO-LIQUID COLD STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.
YORK-HEAT, burners, generators, York-Shipley, Inc.

Z

Z-P, drycleaning soaps, Caled Products Co., Inc.
Z-AIR, drycleaning press, Prosperity Co., Inc.
ZANZIBAR-CARBON, blues, curtain colors, indelible ink, indelible ink eradicator and thinner, B. Heller & Co.
ZARMITE, foot-power laundry presses, American Laundry Machinery Co.
ZARMO, foot-power laundry presses, American Laundry Machinery Co.
ZARMOETTE, air-driven laundry presses, American Laundry Machinery Co.
ZEETONE, paint remover, Riverside Mfg. Co.
ZELAN, durable water repellent, E. I. du Pont de Nemours & Co., Inc.
ZELCO, press and ironer pads, padding, press covers, Nathan Zellermayer & Co.
ZELTEX, press and ironer pads, padding, press covers, Nathan Zellermayer & Co.
ZENITH, electric timers, Zenith Electric Co.
ZENITH, extractors, filters, washers, Billingsly Machinery Co.
ZEOLITE, boiler feed-water treatment, National Chemical Sales Co., Laboratory, Inc.
ZEPHYR, extractor, ironer, washer, Zephyr Laundry Machinery Co.
ZERO, combination water softener and iron removers, neutralizers, Zero Water Softener Mfg. Co.
ZEROSOFT, water softener, iron remover, filter, zeolite, Zero Water Softener Mfg. Co.
ZEST, synthetic wetcleaning soap, Adco, Inc.
ZIG-ZAG, heat exchangers, David Stout & Sons
ZIP, Celanese curtain finisher, Hopkins Equipment Co.
ZIP, go-back conveyor, Time Savers, Inc.
ZIPOLA, lubricant, High Chemical Co.
ZIPON, leather finish, Keystone Aniline & Chemical Co., Inc.
ZIPPER-EASE, stainless lubricant, A. G. S. Co.
ZIPPO, wetcleaning detergent, Benda Products, Inc.
ZIP-R-FIX, tool kit for repairing zippers, Mars Tool Co.
ZIP STIK, ink remover, Keystone Aniline & Chemical Co., Inc.
ZOL, synthetic drycleaning solvent, Stauffer Chemical Co.
ZOLVIT, paint, oil and grease remover, Riverside Mfg. Co.
ZONE-AIR, feather reconditioning unit, American Laundry Machinery Co.
ZONE-AIR, laundry or drycleaning drying tumbler, American Laundry Machinery Co.
ZONEX, chloroform substitute, Package Chemical Co., Inc.
ZORIC, garment cleaning system, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
Z-RAY, drycleaning detergent, Delan Co.
ZUCKERBERG, replacement collars and cuffs for white shirts, Zuckerberg Co.
ZUDS, penetrant, Caled Products Co., Inc.
ZURON, petroleum solvent drycleaning unit, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
ZYME, enzymic desizing and cleaning compound, Carman & Co., Inc.
ZYMO, enzymic spot remover, Keystone Aniline & Chemical Co., Inc.

For manufacturers' addresses see MANUFACTURERS' list beginning page 308

MANUFACTURERS

equipment and supply producers listed alphabetically with their mailing addresses

A

A. A. A. Weaving Service, 1182 Madison Ave., New York 28, N. Y.
A. A. Laundry Machinery Co., 1110-12 S. Kedzie Ave., Chicago 12, Ill.
A. G. S. Co., Muskegon, Mich.
Academy Hanger Co., Inc., 177 E. 123rd St., New York 35, N. Y.
Academy Paper Box Co., 3604 Park Ave., New York 56, N. Y.
Ace Cabinet Corp., Belleville Ave., New Bedford, Mass.
Ace Fastener Corp., 3413 N. Ashland Ave., Chicago 13, Ill.
Ace Hose & Rubber Co., 761 W. Van Buren St., Chicago 7, Ill.
Acker, W. M., Organization, Inc., 3167 Fulton Rd., Cleveland 9, Ohio
Acme Dye House, Inc., 7606 Carnegie Ave., Cleveland 3, Ohio
Acme Hatters Supply Co., 104-106 Bleecker St., New York 12, N. Y.
Acme Industrial Compounds Corp., 623 S. Goodman, Rochester 7, N. Y.
Acme Soap Co., 251 Third St., Cambridge 42, Mass.
Adams Weaving Co., 1123 Republic Bldg., Chicago 4, Ill.
Adco, Inc., 900-928 W. Main St., Sedalia, Mo.
Addressograph-Multigraph Corp., 1200 Babbitt Rd., Cleveland 17, Ohio
Adell Chemical Co., 176 Race St., Holyoke, Mass.
Adrian Research & Chemical Co., Inc., Elm & Pennsylvania Aves., North Wales, Pa.
Advance Machine Co., 2613 S.E. Fourth St., Minneapolis, Minn.
Aerco Corp., 214 Lafayette Pl., Englewood, N. J.
Aerovent Fan Co., 700 E. Ash St., Piqua, Ohio
Alert Engineering Products, 315 W. Woodbridge St., Detroit 26, Mich.
Allcraft Mfg. Co., 27 Hayward St., Cambridge 42, Mass.
Allegheny-Ludlum Steel Corp., 2020 Oliver Bldg., Pittsburgh 22, Pa.
Allen, R. C., Business Machines, Inc., 678 Front St., N. W., Grand Rapids, Mich.
Allen & Vickers, Inc., 495 Glen Iris Dr., N. E., Atlanta 5, Ga.
Allied Equipment Co., 7671 Rogers Ave., Chicago 26, Ill.
Allied Laundry Machinery Corp., 256 Wythe Ave., Brooklyn, N. Y.
Allied Printing & Stationery Co., Inc., 270 Lafayette St., New York 12, N. Y.
All-in-One Mfg. & Supply Co., 1408 Cook St., Houston 8, Texas
Allis-Chalmers Mfg. Co., 1126 S. 70th St., Milwaukee 1, Wisc.
Allis, Louis, Co., 427 E. Stewart St., Milwaukee 7, Wisc.
Almore Dye House, 4412-4424 Wentworth Ave., Chicago 9, Ill.
Alrose Chemical Co., 180 Mill St., P.O. Box 1294, Providence, R. I.
Aluminum Co. of America, 640 Gulf Bldg., Pittsburgh 19, Pa.
Ambassador Continuous Towel Cabinet Co., 123 N. Mission Rd., Los Angeles 33, Cal.
Amber Mfg. Co., 607 S. Union Ave., Los Angeles 14, Cal.
Amber School of Weaving, 611 Main St., Buffalo 3, N. Y.
Americaine, Inc., 1316 Sherman Ave., Evanston, Ill.
American Air Compressor Corp., 48th & Dell Ave., North Bergen, N. J.
American Aniline Products, Inc., 820 S. Clinton St., Chicago 7, Ill.
American Associated Cos., Inc., 451-461 Stephens St., S.W., Atlanta, Ga.
American Brake Shoe Co., Kellogg Div., Rochester 9, N. Y.
American Brass Co., American Metal Hose Branch, 698 S. Main St., Waterbury 20, Conn.
American Cleaners Equipment Co., Div. American Laundry Machinery Co., Cincinnati 12, Ohio
American Coal Burner Co., 18 E. Erie St., Chicago 11, Ill.
American Coat Hanger Mfg. & Specialty Co., 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
American Colloid Co., 363 W. Superior St., Chicago 10, Ill.
American Coolair Corp., Box 2300, Jacksonville 3, Fla.
American District Steam Co., 70 Bryant St., North Tonawanda, N. Y.
American Dyeing & Cleaning Co., 4110 Worth St., Dallas 1, Texas
American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.
American Engineering Co., Aramingo Ave. & Cumberland St., Philadelphia 25, Pa.
American Felt Co., Glenville, Conn.
American Hair & Felt Co., 1828 Merchandise Mart, Chicago 54, Ill.
American Hatters Supplies, Inc., 9 E. Harrison St., Chicago 5, Ill.
American Heat Corp., 80 Boylston St., Boston 16, Mass.
American Institute of Laundering, Joliet, Ill.
American K.A.T. Corp., 331 Madison Ave., New York 17, N. Y.
American-La France-Foamite Corp., 100 E. La-France St., Elmira, N. Y.
American Laundry Machinery Co., Norwood Station, Cincinnati 12, Ohio
American Mineral Spirits Co., 230 N. Michigan Ave., Chicago, Ill.
American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio
American Mothproofing Co., 711 N. Euclid Ave., St. Louis 8, Mo.
American Numbering Machine Co., Atlantic & Shepherd Aves., Brooklyn 8, N. Y.
American Pressboard Co., 110 W. 30th St., New York 1, N. Y.
American Shirt Co., 1123 Broadway, New York 10, N. Y.
American Sterilizer Co., 1230 Plum, Erie, Pa.
American Telephone & Telegraph Co., 195 Broadway, New York 7, N. Y.
American Textile Weaving Co., 5 N. Wabash, Chicago, Ill.
American Water Softener Co., Fourth & Lehigh, Philadelphia 33, Pa.
American Wire Form Co., 265 Grant Ave., Jersey City 5, N. J.
American Writing Ink Co., Inc., 15 Hathaway St., Boston, Mass.
Ames Iron Works, E. Second & Cayuga Sts., Oswego, N. Y.
Anderson, Glenn L., 3887 Bushnell Rd., Cleveland 18, Ohio
Anderson Box & Basket Co., Inc., Henderson, Ky.
Anderson, V. D., 1915 W. 96th St., Cleveland 2, Ohio
Anderson-Prichard Oil Corp., Apco Tower, Oklahoma City 2, Okla.
Andreas, M., 156 E. 88th St., New York 28, N. Y.
Andrew Paper Box & Bag Corp., 845 Gates Ave., Brooklyn 23, N. Y.
Andrew Technical Service, 11 E. Delaware Pl., Chicago 11, Ill.
Angelica Uniform Co., 1419-29 Olive St., St. Louis 3, Mo.
Angle Steel Stool Co., 403 Water St., Plainwell, Mich.
Ansul Chemical Co., Marinette, Wisc.
Anthony Co., 47-33 Fifth St., Long Island City 1, N. Y.
Apex Chemical Co., Inc., 225 W. 34th St., New York 1, N. Y.
Applegate Chemical Co., 5632 Harper Ave., Chicago 37, Ill.
Aqua-Sec Corp., 1450 Broadway, New York 18, N. Y.
Arabol Mfg. Co., 110 E. 42nd St., New York 17, N. Y.
Armite Laboratories, 1900 E. 65th St., Los Angeles 1, Cal.
Armour & Co., Industrial Soap Div., 1355 W. 31st St., Chicago 9, Ill.
Arms Textile Mfg. Co., 51 Madison Ave., New York 10, N. Y.
Armstrong Hart Co., 381 Peachtree, N. E., Atlanta 3, Ga.
Armstrong Machine Works, 850 Maple St., Three Rivers, Mich.
Arnold-Hoffman & Co., Inc., 55 Canal St., Providence, R. I.
Aroscent, Inc., P. O. Box 269, Dobbs Ferry, N. Y.
Arrow Fastener Co., Inc., 1 Junius St., Brooklyn 12, N. Y.
Arrow Mfg. Co., Inc., 2924 Terrace St., Kansas City 8, Mo.
Arrow Tank Co., Inc., 16 Barnett St., Buffalo 15, N. Y.
Ashton Valve Co., 161 First St., Cambridge 39, Mass.
Asselin, Victor, Inc., 150 W. 30th St., New York 1, N. Y.
Associated Crib Diapers Cos., 4747 N. Damen Ave., Chicago 25, Ill.
Atlanta Brush Co., Box 1358, Atlanta 1, Ga.
Atlanta Paper Co., Marietta Ave., Atlanta, Ga.
Atlantic Stainprul Co., 10 Hudson Pl., Hoboken, N. J.
Atlas Body Co., 4150 E. Thompson St., Philadelphia 37, Pa.
Atlas Powder Co., Industrial Chemicals Dept., Wilmington 99, Del.
Atlas Steel Products, Inc., 1160 Chico Ave., El Monte, Cal.
Attapulgus Clay Co., 210 W. Washington Sq., Philadelphia 5, Pa.
Aurora Mfg. Co., 273 Tompkins Ave., Brooklyn 16, N. Y.
Autographic Register Co., Seventh & Park, Hoboken, N. J.
Automatic Paper Box Corp., 1011-25 S. California Ave., Chicago, Ill.
Automatic (Sussman) Steam Products Corp., 140 W. 31st St., New York, N. Y.
Automatic Temperature Control Co., Inc., Philadelphia 44, Pa.
Automobile Insurance Co., 151 Farmington Ave., Hartford, Conn.
Ayr-Mor Machinery Co., Inc., 6546 N. Sheridan Rd., Chicago 26, Ill.

B

B & C Engineering Co., 2706 Chestnut St., Toledo, Ohio
B & G Machinery Co., 2432 Southeastern Ave., Indianapolis 1, Ind.
Bader, C. L., Co. Inc., 110 N. 10th St., Fort Smith, Ark.
Baehr Laundry Machine Co., 29 Calumet St., Newark 5, N. J.
Bahnson Co., 1001 S. Marshall St., Winston-Salem, N. C.
Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio
Bailey, Prihoda & Co., 326 Kalamazoo Ave., Kalamazoo 11, Mich.
Baker, J. T., Chemical Co., N. Broad St., Phillipsburg, N. J.
Baltimore Specialties Co., 419 W. Baltimore St., Baltimore 1, Md.
Band Box Corp., 2301 Chouteau Ave., St. Louis 3, Mo.
Barco Mfg. Co., 1801-15 Winnemac Ave., Chicago 40, Ill.
Barreled Sunlight Paint Co., 10 E. Dudley St., Providence 1, R. I.
Barrett Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
Bart, Stuart, Inc., 114 E. 32nd St., New York 16, N. Y.

Bartlett Label Co., 2135 Portage St., Kalamazoo 29F, Mich.
Bassick Co., 38 Austin St., Bridgeport 2, Conn.
Bauer, Samuel, & Sons, Inc., 143 W. 29th St., New York, N. Y.
Beach Soap Co., 125 Lawrence St., Lawrence, Mass.
Beaver Pipe Tools, Inc., 310 Dana, N. E., Warren, Ohio
Behrstock, L., Co., 1708 S. State St., Chicago 16, Ill.
Belco Industrial Equipment Div., Inc., 50 Iowa Ave., Paterson 3, N. J.
Belmont Packing & Rubber Co., Butler & Sepviva Sts., Philadelphia 37, Pa.
Belnap & Thompson, Inc., 271 Madison Ave., New York, N. Y.
Bemis Bro. Bag Co., 408 Pine St., St. Louis 2, Mo.
Benda Products, Inc., 120 Potter St., Cambridge 42, Mass.
Bendix Aviation Corp., Flexible Hose Div., U. S. Route 6, Teterboro, N. J.
Benwall Mfg. Co., Inc., 2859 Atlantic Ave., Brooklyn 7, N. Y.
Bergen Machine Tool Co., Inc., Radne Unit Springs Div., 189 Franklin Ave., Nutley 10, N. J.
Berger Damage Reweaving Co., 666 Madison Ave., New York 21, N. Y.
Berger Mfg. Div., Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio
Berlou Mfg. Co., 38 Blaine Ave., Marion, Ohio
Bersworth Chemical Co., Waverly St., Framingham, Mass.
Bertsch & Co., Cambridge City, Ind.
Besler Corp., 4053 Harlan St., Emeryville 8, Cal.
Best Forms Co., 10 Grace St., P. O. Box 736, Wilmington, N. C.
Better Packages, Inc., 255 Canal St., Shelton, Conn.
Big Ben Petroleum Products Co., 624 S. Michigan Ave., Chicago 5, Ill.
Bigelow-Sanford Carpet Co., 136 Madison Ave., New York 16, N. Y.
Bildwell Manufacturers, 315 E. Liberty St., Ann Arbor, Mich.
Billingsly Machinery Co., 4316-4404 Main St., Dallas, Texas
Binberg, Ben, & Co., Inc., 373 Broadway, New York 13, N. Y.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Bishop, Barry, Co., 103 E. 125th St., New York 35, N. Y.
Bishop, G. H., Co., 618 S. Kolmar Ave., Chicago 24, Ill.
Bixbee Research Div. of Blazemaster, Inc., 56 S. 11th St., Brooklyn 11, N. Y.
Blackmer Pump Co., 1809 Century Ave., S. W., Grand Rapids 9, Mich.
Blenco Co., 215 Havemeyer St., Brooklyn 11, N. Y.
Bock Laundry Machine Co., Toledo Factories Bldg., Toledo 2, Ohio
Boiler Engineering & Supply Co., 330 Fourth Ave., Phoenixville, Pa.
Bond Foundry & Machine Co., Manheim, Pa.
Bond Street Bag & Paper Corp., 90 First St., Brooklyn 31, N. Y.
Bonis Bros. Fur Machinery Corp., 312 Seventh Ave., New York 1, N. Y.
Bonn, F. H., Co., 619 W. Fulton St., Chicago 40, Ill.
Bostitch, Inc., 574 Mechanic St., Westerly, R. I.
Boston Clip & Tag Co., 48 Grove St., Somerville, Mass.
Bostwick-Batterson Co., 315-23 N. 12th St., Philadelphia 7, Pa.
Bostwick Laboratories, 706 Bostwick Ave., Bridgeport 5, Conn.
Bowser, Inc., 1312 E. Creighton Ave., Fort Wayne 6, Ind.
Brabook, A. N., 424 Madison Ave., New York 17, N. Y.
Brady Conveyors Corp., 20 W. Jackson Blvd., Chicago 4, Ill.
Braun Brush Co., 8833 78th St., Woodhaven 21, N. Y.
Bready Engineering Corp., 3103 N. 27th St., Milwaukee 16, Wisc.
Brenew Co., Platteville, Wisc.
Bressler Engineering Service, 509 N. Fourth Ave., Oregon 1, Ill.
Breuer Electric Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40, Ill.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Brillo Mfg. Co., Inc., 60 John St., Brooklyn 1, N. Y.
Bristol Co., Waterbury 91, Conn.
Brooks, Alfred J., 184 Dent St., West Roxbury, Boston, Mass.
Brownell Co., 450 N. Findlay St., Dayton 1, Ohio
Brown Instrument Co., Div. Minneapolis Honeywell Regulator Co., Wayne & Roberts Aves., Philadelphia 44, Pa.
Brumber & Zinniel, 6211 N. Bay Ridge Ave., Milwaukee, Wisc.
Bruner Corp., 2318 N. 30th St., Milwaukee 45, Wisc.
Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
Brunt Mfg. Co., 64 S. Division St., Buffalo 3, N. Y.
Bryan Steam Corp., Chili Pike, Peru, Ind.
Buffalo Meter Co., 2917 Main St., Buffalo 14, N. Y.
Bunn, B. H., Co., 7605 Vincennes Ave., Chicago 20, Ill.
Burcott Mills, 616 W. Fulton St., Chicago 6, Ill.
Burgess-Berliner Associates, 214 S. First St., St. Charles, Ill.
Burkstur Specialties Co., 14019 Wyoming Ave., Detroit 4, Mich.
Burroughs Adding Machine Co., Detroit 32, Mich.
Bussard, R. D., & Son, 505 E. Fifth Ave., Albany, Ore.
Butler Engineering Co., 2612 Rousseau St., New Orleans 13, La.
Butler Mfg. Co., 7400 E. 13th St., Kansas City 3, Mo.

C

C & H Electric Co., 436 W. Juneau Ave., Milwaukee 3, Wisc.
C. O. D. Cleaning & Dyeing Co., Davenport, Iowa
Caldwell, W. E., Co., 2050 Brook St., Louisville, Ky.
Caled Products Co., Inc., 4200 Bladensburg Blvd., Brentwood, Mich.
Calgon, Inc., Hagan Bldg., Pittsburgh, Pa.
California Laundry Equipment Co., 2221 Union St., Oakland, Cal.
Callaway Mills, Inc., 295 Fifth Ave., New York 16, N. Y.
Cambridge Instrument Co., Inc., 3192 Grand Central Terminal, New York, N. Y.
Campbell Box & Tag Co., Main & Sample Sts., South Bend, Ind.
Campbell, J. A., Co., 645 E. Wardlow Rd., Long Beach 7, Cal.
Canton Stoker Corp., 1600 Andrew Pl., S.W., Canton 1, Ohio
Canvas Specialty Co., P. O. Box 937, Hartford 1, Conn.
Capital Poster Service, Inc., 307 Canal St., New York, N. Y.
Cappel, MacDonald & Co., 30 E. 60th St., New York, N. Y.
Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Carey, Philip, Mfg. Co., Cincinnati 15, Ohio
Carey Salt Co., Carey Bldg., Hutchinson, Kans.
Carll, Chas. W., Sons, Cole St. & Reading R. R., Trenton 8, N. J.
Carlton Chemical Co., Inc., 33 Commerce St., New York 14, N. Y.
Carman & Co., Inc., 70 Summit St., Brooklyn 31, N. Y.
Carnegie-Illinos Steel Corp., Carnegie Bldg., Pittsburgh 30, Pa.
Carrier Corp., Syracuse, N. Y.
Carson Textile Co., Inc., 2401 S. Swanson St., Philadelphia, Pa.
Carter's Ink Co., 239 First St., Cambridge 42, Mass.
Carver Pump Co., Hershey & Green Sts., Muscatine, Iowa
Cash, A. W., Co., P. O. Box 551, Decatur, Ill.
Cash, J. & J., Inc., Chestnut St., South Norwalk, Conn.
Caterpillar Tractor Co., 350 Fifth Ave., New York, N. Y.
Cauthen & Slocum, Inc., 1218 N. Capitol St., Washington 2, D. C.
Central Brass Mfg. Co., 2950 E. 55th St., Cleveland 4, Ohio
Central Dyeing Co., 1550 Dickson Ave., Scranton 9, Pa.
Century Electric Co., 1806 Pine St., St. Louis 3, Mo.
Century Paper Products Co., 333 N. Francisco, Chicago, Ill.
Certified Chemical & Equipment Co., 1472 E. 25th St., Cleveland 14, Ohio
Challenge Marking Tag Co., 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
Chambers Extractor Co., 201 Embarcadero, San Francisco 11, Cal.
Champion Implement Corp., 45 W. 45th St., New York 19, N. Y.
Chandler Machine Co., West St., Ayer, Mass.
Charlotte Leather Belting Co., 314-B E. Sixth St., Charlotte 1, N. C.
Chase Brass & Copper Co., 236 Grand St., Waterbury 91, Conn.
Chatillon, John, & Sons, 85 Cliff St., New York 7, N. Y.
Checking System Co., 515 S. Walker St., Columbia, S. C.
Chek Products, Inc., 31 Nassau Pl., East Orange, N. J.
Chelsea Fan & Blower Co., 1206 Grove St., Irvington 11, N. J.
Chevlin, Samuel, Co., Inc., 2721 N. Halsted St., Chicago 4, Ill.
Chevrolet Motor Div., General Motors Corp., Detroit 2, Mich.
Chicago Automatic Stoker Co., 14 N. Clinton St., Chicago 6, Ill.
Chicago Dryer Co., 2210 N. Pulaski Rd., Chicago 39, Ill.
Chicago Metal Hose Div., Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.
Chicago Pearl Button Co., 216 W. Jackson Blvd., Chicago 6, Ill.
Chicago Pump Co., 2300 Wolfram St., Chicago 18, Ill.
Chief Mfg. Co., Inc., 806 Beecher St., Indianapolis 7, Ind.
Chisholm-Moore Hoist Corp., Fremont Ave., Tonawanda, N. Y.
Chrisman, E. L., Co., Inc., 8255 Compton Ave., Los Angeles 1, Cal.
Chrysler Corp., Airtemp Div., 1119 Leo St., Dayton, Ohio
Chrysler Corp., Amplex Div., 6501 Harper Ave., Detroit 31, Mich.
Cidex Corp., 85 Franklin St., Jersey City 7, N. J.
Cincinnati Marking Tag & Supply Mfg. Co., 12 E. Ninth St., Cincinnati 2, Ohio
Cincinnati Repair Service, 413 Race St., Cincinnati, Ohio
Circle Pleating & Pattern Co., Ltd., 265 W. 40th St., New York 18, N. Y.
Cissell, W. M., Mfg. Co., Inc., P. O. Box 1143, 831 S. First St., Louisville 3, Ky.
Cizek, Sidney A., 12-21 30th Ave., Long Island City 2, N. Y.
Clarage Fan Co., North & Porter Sts., Kalamazoo 16, Mich.
Clark Mfg. Co., 1830 E. 38th St., Cleveland 14, Ohio
Clayton Mfg. Co., 1363 N. Temple City Blvd., El Monte, Cal.
Cleaners Hanger Co., 18140 James Couzens Highway, Detroit 35, Mich.
Cleaners Sales & Equipment Corp., 201 Washington St., New York 7, N. Y.
Cleaners Specialties Supplies Co., 6615 N. Fairfield Ave., Chicago 45, Ill.
Clear View Packaging Co., 2636 S. Michigan Ave., Chicago 6, Ill.
Cleaver-Brooks Co., 358 E. Keefe Ave., Milwaukee 12, Wisc.
Cleveland Garment Hanger Co., 8205 Madison Ave., Cleveland 2, Ohio
Cleveland Rug Cleaning Machinery Co., 5618 Hamlet Ave., Cleveland 4, Ohio
Clinton Foods, Inc., Clinton, Iowa
Clinton Products Co., Clinton 7, Mich.
Clipper Belt Lacer Co., 974 Front Ave., N.W., Grand Rapids 2, Mich.
Clopay Corp., Clopay Sq., Cincinnati 14, Ohio
Clorox Chemical Co., 850 42nd Ave., Oakland 1, Cal.
Coates Electric Mfg. Co., 3610 First Ave. S, Seattle 4, Wash.
Cochrane Corp., 3101 N. 17th St., Philadelphia 32, Pa.
Coe Mfg. Co., Bank St., Painesville, Ohio
Coffman Mfg. Corp., 531 Milwaukee Ave., Chicago 22, Ill.
Cohen, Abr. & Son, 1721 Ft. Myer Dr., Arlington, Va.
Colgate-Palmolive-Peet Co., 105 Hudson St., Jersey City 2, N. J.
Collar Smooth Sales Co., 232 Madison Ave., New York 16, N. Y.
College Chemical Co., 16 Brooks Park, Medford, Mass.
Colonial Rubber Co., Ravenna, Ohio
Colorado Tent & Awning Co., 1642 Lawrence St., Denver 2, Colo.
Colson Corp., Cedar St., Elyria, Ohio
Columbia Appliance Corp., 8-16 43rd Ave., Long Island City 1, N. Y.
Columbia Boiler Co., Pottstown, Pa.
Columbia Laundry Machinery Co., 1313-19 E. 15th St., Kansas City, Mo.
Columbia Needlework Supply Co., Gearhart Runner Knitter Co., 411 Sixth St., N.E., Washington 2, D. C.
Columbia Sewing Machine Corp., 129-131 W. 22nd St., New York 11, N. Y.
Columbia-Southern Chemical Corp., Fifth Ave. at Bellefield, Pittsburgh 13, Pa.
Columbus Reweavers, 7651 N. E. Second Ave., Miami, Fla.
Combustion Control Corp., 77 Broadway, Cambridge 42, Mass.
Combustion Engineering Co., Inc., 200 Madison Ave., New York, N. Y.
Comer Co., 308 Ivy St., N. E., Atlanta 1, Ga.
Commercial Dye Works, 14 Roswell St., Roxbury 19, Mass.
Commercial Investment Trust, Inc., 1 Park Ave., New York 16, N. Y.
Commercial Tag Co., 187 Vanderbilt Ave., Brooklyn 5, N. Y.
Conco Engineering Works, Div. H. D. Conkey & Co., 1900 Orange St., Mendota, Ill.
Concord Chemical Co., Moorestown, N. J.
Conrad Embroidery Co., 523 40th St., Union City, N. J.
Continental Car-Na-Var Corp., Box 344, Brazil, Ind.
Cook Machinery Sales Co., 4122 Commerce St., Dallas, Texas
Cook's, Adam, Sons, Inc., 5 N. Stiles St., Linden, N. J.
Coolidge, John E., Co., 2508 W. Slauson Ave., Los Angeles 43, Calif.
Cooper-Bessemer Corp., Mt. Vernon, Ohio
Cooper, H. P., Co., 508-10 S. Green St., Chicago 7, Ill.
Cooper, T. G., & Co., Inc., Cedar & Venango Sts., Philadelphia 6, Pa.
Cornell Belting Co., 440 N. Wells St., Chicago 10, Ill.
Cornell Paperboard Products Co., Milwaukee 1, Wisc.
C-O-Two, U. S. Highway No. 1, Newark 1, N. J.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio
Cramer, R. W., & Co., Inc., Centerbrook, Conn.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.

Cravenette Co., U. S. A., Eighth & Madison Sts., Hoboken, N. J.
Crawford Fitting Co., 884 E. 140th St., Cleveland, Ohio
Crescent Belt Fastener Co., 247 Park Ave., New York 17, N. Y.
Crewdson Co., 360 E. Grand Ave., Chicago 11, Ill.
Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works, Ampere, N. J.
Crosby Steam Gauge & Valve Co., 10 Roland St., Boston 29, Mass.
Crossland Mfg. Co., Inc., 2294 Albion St., Toledo 6, Ohio
Crown Mfg. Co., 1025 N. Sixth St., St. Louis 1, Mo.
Crucible Steel Co. of America, Henry W. Oliver Bldg., Pittsburgh 30, Pa.
Crystalite Co., Inc., 283 McKinley Ave., East Orange, N. J.
Culligan Zeolite Co., 1810 Shermer Ave., Northbrook, Ill.
Cummings-Landau Laundry Machinery Co., Inc., 595 Ten Eyck St., Brooklyn 6, N. Y.
Cuno Engineering Corp., 80 S. Vine St., Meriden, Conn.
Cupple-Hess Corp., 4175 N. Kingshighway Blvd., St. Louis 15, Mo.
Curry, J. W., Co., 2615 Cummins St., Cincinnati 25, Ohio
Custom Engineering Co., 3138 W. Slauson Ave., Los Angeles 43, Cal.
Custom Fur Service, Inc., Second Ave. at 109th St., Troy, N. Y.
Cutler-Hammer, Inc., 315 N. 12th St., Milwaukee 1, Wisc.
Cyclotherm Corp., 157 E. First St., Oswego, N. Y.

D

Dahlberg Machinery Co., 918-26 E. Superior St., Duluth, Minn.
Dakota Chemical Co., Aberdeen, S. D.
Daniels, C. R., Inc., Daniels, Md.
Darco Dept. (Atlas Powder Co.), 60 E. 42nd St., New York 17, N. Y.
Darnell Corp., Ltd., 3517 E. 11th St., Long Beach 4, Cal.
Davies-Young Soap Co., Box 995, Dayton 1, Ohio
Davis Emergency Equipment Co., Inc., 45 Halleck St., Newark 4, N. J.
Davis Engineering Corp., 1064 E. Grand St., Elizabeth 4, N. J.
Davis, K. H., Mfg. Corp., 2415 E. 23rd St., Los Angeles 11, Cal.
Davis Mills, Inc., 211 Grant Ave., East Newark, N. J.
Davison Chemical Co., 101 N. Charles St., Baltimore 3, Md.
Davis Regulator Co., 2663 W. 25th Pl., Chicago 8, Ill.
Davis Specialties, Inc., 618 S. Kolmar Ave., Chicago 24, Ill.
Davis-Weil Mfg. Co., Inc., 931 S. Front St., Memphis 3, Tenn.
Dean Hill Pump Co., 4000 E. 16th St., Indianapolis 7, Ind.
DeBothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill.
Decatur Pump Co., 2750 Nelson Pk. Rd., Decatur 70, Ill.
Deep Rock Oil Corp., 155 N. Clark St., Chicago 90, Ill.
Defender Instrument & Regulator Co., 815 Clark Ave., St. Louis 2, Mo.
Deiur Electric Works, 124 Bleecker St., New York 12, N. Y.
Delan Co., 421 E. Fourth South St., Salt Lake City 2, Utah
De Laval Steam Turbine Co., 853 Nottingham Way, Trenton 2, N. J.
Delray School of Spotting Instruction, 3029 Fairfield Ave., Cincinnati, Ohio
Deming Co., Salem Ohio
Dennison Mfg. Co., 300 Howard St., Framingham, Mass.
Denominator Co., 261 Broadway, New York, N. Y.
D'Este Div., American Chain & Cable Co., Inc., Tulpehocken St., Reading, Pa.
Detecto Scales, Inc., 540 Park Ave., Brooklyn 5, N. Y.
Detex Watchclock Corp., 76 Varick St., New York 13, N. Y.
Detrex Corp., Box 501, Detroit 32, Mich.
Detroit Belt Lacer Co., 3951 A St., Detroit 16, Mich.
Detroit Stoker Co., General Motors Bldg., Detroit, Mich.
Devere Co., 2000-2012 Clark St., Racine, Wisc.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, Ohio
Devoe & Raynolds Co., Inc., 44th St. & First Ave., New York, N. Y.
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio
Diamond Chain Co., Inc., 402 Kentucky Ave., Dept. 442, Indianapolis 7, Ind.
Diamond Metal Products Co., 406 Market St., St. Louis 2, Mo.
Diamond T Motor Co., 4401 W. 26th St., Chicago 23, Ill.
Dicalite Div., Great Lakes Carbon Corp., 18 E. 48th St., New York 17, N. Y.
Dico Co., 200 S. W. 16th St., Des Moines 5, Iowa
Diehl Mfg. Co., Electrical Div., Singer Mfg. Co., 1136 Finderne Ave., Somerville, N. J.
Diem & Wing Paper Co., Gilbert Ave. Viaduct, Cincinnati 2, Ohio
Display Features, 3811 Plumstead Ave., Drexel Hill, Pa.
Ditmas Garment Dyers Corp., 9528-30 Ditmas Ave., Brooklyn 12, N. Y.
Divco Corp., 22000 Hoover Rd., P. O. Box 3807, Park Grove Station, Detroit 5, Mich.
Dixie Hanger Co., Subsidiary United Paper Co., Inc., 1000 Chartres St., New Orleans 16, La.
Dixo Co., 223 River Rd., Garfield, N. J.
Dixon Boiler Works, 1625 Naud St., Los Angeles, Cal.
Doctor Boiler, Inc., 4316 Main St., Dallas, Texas
Dodge Div., Chrysler Corp., 7900 Jos. Campeau Ave., Detroit, Mich.
Donnell Co., P. O. Box 84, St. Joseph, Mich.
Doran Bros., Inc., 30 Shelter Rock Rd., Danbury, Conn.
Dover Stamping Co., 80 Federal St., Boston 10, Mass.
Dow Chemical Co., Midland, Mich.
Dravo Corp., 300 Penn Ave., Pittsburgh 22, Pa.
Dresser Mfg. Div., Dresser Industries, Inc., 41 Fisher Ave., Bradford, Pa.
Drew, E. F., & Co., Inc., 15 E. 26th St., New York 10, N. Y.
Driair Process Machinery Co., Penn & Ruan Sts., Philadelphia 24, Pa.
Drico Industrial Corp., 29 Broadway, New York 6, N. Y.
Dri-Flo Mfg. Co., 642 E. Ten Mile Rd., Hazel Park, Mich.
Driseal Co., 231 Causeway St., Boston 14, Mass.
Dryco Corp., 625 S. Kolmar Ave., Chicago 24, Ill.
Dublite Collar Co., 200 Worth St., New York 13, N. Y.
Duffen Dye Works, 2213 County St., Portsmouth, Va.
Dunaway, H. D., & Co., P. O. Box 4991, Atlanta 2, Ga.
Du Pont de Nemours, E. I., & Co., Inc., Wilmington 98, Del.
Durable Fibre Sample Case Co., 207 Wooster St., New York 12, N. Y.
Dytex Chemical Co., 140 India St., Providence 3, R. I.

E

Eagle Belting & Leather Co., 1401 Central Parkway, Cincinnati 14, Ohio
Easton Cyclone Conveyor System, Inc., 876 Van Houten Ave., Clifton, N. J.
Eaton Chemical & Dyestuff Co., 1490 Franklin St., Detroit 7, Mich.
Ebco Mfg. Co., 401 W. Town St., Columbus, Ohio
Eckert-Richmond Co., 206-08 W. 29th St., New York 1, N. Y.
Eclipse Fuel Engineering Co., 1155 Buchanan St., Rockford, Ill.
Eclipse Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
Economy Hanger Machine & Equipment Co., 4324 N. 37th Ave., San Diego 5, Cal.
Economy Specialty Co., 446 Second St., Jersey City 2, N. J.
Economy Tablet & Paper Co., 667 W. 14th St., Chicago, Ill.
Econo-Pak Register Co., 1537 E. 27th St., Kansas City 8, Mo.
Edwards, Vincent, & Co., 342 Madison Ave., New York 17, N. Y.
Edward Valves, Inc., Subsidiary Rockwell Mfg. Co., 1200 W. 145th St., East Chicago, Ind.
Egan Cotton Mills, 866 Murphy Ave., S.W., Atlanta 4, Ga.
Egry Register Co., 429 E. Monument Ave., Dayton 2, Ohio
Electric Auto-Lite Co., Instrument & Gauge Div., Champlain St., Toledo 1, Ohio
Electric City Dyeing Co., 509 Glenn St., Scranton, Pa.
Electric Steam Boiler Sales, Div. Wolf Co., Wolf Ave., Chambersburg, Pa.
Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia 32, Pa.
Electro Chemical Engineering Co., Inc., P. O. Box 27, Bremen Station, St. Louis 7, Mo.
Electro Lift, Inc., 30 Church St., New York 7, N. Y.
Elgin Softener Corp., 150 N. Grove Ave., Elgin, Ill.
Elliott Co., Jeannette, Pa.
Elliott, Robert, Press, Inc., 345 Ludlow St., Stamford, Conn.
Ellis Drier Co., 2444 N. Crawford Ave., Chicago 39, Ill.
Emery Industries, Inc., 6801 Mariemont Ave., Cincinnati 2, Ohio
Empire Cleaning & Dyeing Works, 622 Hollenbeck St., Rochester 5, N. Y.
Empire Institute of Tailoring, 422 E. Fifth St., Hazleton, Pa.
Endriss Chemicals, 940 N. Delaware Ave., Philadelphia 23, Pa.
Equitable Paper Bag Co., Inc., 47-02 31st Pl., Long Island City 1, N. Y.
Erie City Iron Works, 1550 East Ave., Erie, Pa.
Erie Enameling Co., 1920 Woodrow St., Erie, Pa.
Ernest, F. P., Mfg. Co., 1112 St. Clair Ave., East St. Louis, Ill.
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8, Wisc.
Eureka Button Co., 892 Broadway, New York 3, N. Y.
Everlasting Valve Co., 49 Fisk St., Jersey City 5, N. J.
Ewing, R., & Sons, Inc., Green Island, N. Y.
Excelsior Machinery Co., 1452 Randolph St., Detroit 26, Mich.

F

Fabric Laundry & Dry Cleaning Machinery Corp., 192 Banker St., Brooklyn 22, N. Y.
Fabricon Co., 8342 S. Prairie Ave., Chicago 19, Ill.
Fafnir Bearing Co., New Britain, Conn.
Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
Fairbanks Morse & Co., Fairbanks Morse Bldg., 600 S. Michigan Ave., Chicago 5, Ill.
Fairfield Laboratories, Plainfield, N. J.
Fastik Co., 1106 W. Erie St., Chicago 22, Ill.
Federal Motor Truck Co., 5780 Federal Ave., Detroit, Mich.
Federal Textile Corp., East & Water Sts., New Haven, Conn.
Fenton Label Co., 506-512 Race St., Philadelphia 6, Pa.
Fielden Instrument Corp., 2920 N. Fourth St., Philadelphia, Pa.
Filtrol Corp., 727 W. Seventh St., Los Angeles 17, Cal.
Firefly Asbestos Products Co., 175 Bergen St., Newark 3, N. J.
Fisch[illegible]r & Porter Co., Hatboro, Pa.
Fisher Dye Works, 1813 Emanuel St., Houston, Texas
Fiske Bros. Refining Co., Lubriplate Div., 129 Lockwood St., Newark 5, N. J.
Flash-Fast Div., Louis Marks, Inc., 78 N. Summit St., Akron, Ohio
Fleischer Mills, Inc., 316 E. Fifth St., Cincinnati 2, Ohio
Fletcher Works Inc., 213 Glenwood Ave., Philadelphia 40, Pa.
Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill.
Flynn & Emrich Co., 301 Holliday St., Baltimore 2, Md.
Ford Div., Ford Motor Co., 3000 Schaeffer Rd., Dearborn, Mich.
Ford Tank Maintenance Co., Inc., 715 E. 136th St., New York 54, N. Y.
Formula Controls, Inc., 612 W. 26th St., Chicago 16, Ill.
Forse Equipment Corp., 700 W. 14th St., Anderson, Ind.
Foster-Stephens, Inc., 310 S. Christiana Ave., Chicago 24, Ill.
Foxboro Co., 38 Neponset Ave., Foxboro, Mass.
Franklin Mfg. Co., 2615 E. Franklin Ave., Minneapolis 6, Minn.
Franklin Research Co., 5134 Lancaster Ave., Philadelphia 31, Pa.
Franklin Textile Mills, 120 Franklin St., Franklin Park, Mass.
Fre-Bir-Pac, Inc., 876 Van Houten Ave., Clifton, N. J.
Fremont Rubber Co., 317 McPherson Highway, Fremont, Ohio.
French Textile Co., 432 Ave. A., Rochester, N. Y.
Freund, Freund & Co., Inc., 102 Franklin St., New York 13, N. Y.
Freydberg Bros.-Strauss, Inc., 419 Fourth Ave., New York 16, N. Y.
Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton 1, Ohio
Fry Bros. Co., 1728-46 Dana Ave., Cincinnati 7, Ohio
Frye, E. B., & Son, Wilton, N. H.
Fullo Corp., 2358 N. Seeley Ave., Chicago 47, Ill.
Fulton Boiler Works, Inc. Box 228, Fulton, N. Y.
Fumol Corp., 49-65 Van Dam St., Long Island City 1, N. Y.
Furtex Rejuvenating Corp., 258 E. Third St., Mt. Vernon, N. Y.

G

G & G Chemical Co., 704 W. Broadway, Hopewell, Va.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Gardner-Denver Co., Gardner Dr., Quincy, Ill.
Gardner Machinery Corp., N. Andrell Terrace & Seaboard Railway, Charlotte 1, N. C.
Garment Finishing Equipment Corp., P. O. Box 246, Sharon, Pa.
Garment Hanger Co., 2624 Geraldine St., Los Angeles 11, Cal.

Gasway Corp., 6463 N. Ravenswood Ave., Chicago 26, Ill.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Geller, L. & Son, 990 Myrtle Ave., Brooklyn 6, N. Y.
General Aniline & Film Corp., Special Products Sales Div., 444 Madison Ave., New York 22, N. Y.
General Boiler Equipment Corp., 2651-53 Gravois St., St. Louis 18, Mo.
General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
General Cleaners Products Co., 410 N. Kedzie Ave., Chicago 12, Ill.
General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich.
General Dyeing Co., 818 Dorman St., Indianapolis 2, Ind.
General Dyestuff Corp., 435 Hudson St., New York 14, N. Y.
General Electric Co., 1 River Rd., Schenectady 5, N. Y.
General Electric Co., Air Conditioning Dept., 5 Lawrence St., Bloomfield, N. J.
General Electric Co., Lamp Dept., Nela Park, Cleveland, Ohio
General Luminescent Corp., 732 S. Federal St., Chicago 5, Ill.
General Machine Supply Co., 933 Market St., Camden, N. J.
General Motors Corp., General Motors Bldg., Detroit 2, Mich.
General Pacific Corp., 1501 E. Washington Blvd. Los Angeles 21, Cal.
Germaclean, Inc., 431 Niagara St., Buffalo 1, N. Y.
Germain's Twist-Ems Div., Los Angeles 21, Calif.
Gifford, H. M., Mfg. Co., 2750 B St., Philadelphia 34, Pa.
Gilbert & Barker Mfg. Co., Cold Springs Ave., West Springfield, Mass.
Gilmer, L. H., Co., Div. U. S. Rubber Co., Tacony, Philadelphia 35, Pa.
GlenZip Co., 216 N. Clinton St., Chicago 6, Ill.
Glidden Co., 11001 Madison Ave., Cleveland 2, Ohio
Gliss'n Products Co., Inc., 1811 Indiana Ave., Chicago 16, Ill.
Globe Ticket Co. of New England, 620 Commonwealth Ave., Boston 15, Mass.
Globe Weaving Co., 17 N. State St., Chicago, Ill.
Glover, Bill, Inc., 5204 Truman Rd., Kansas City 1, Mo.
Golden-Anderson Valve Specialty Co., Keenan Bldg., Pittsburgh 22, Pa.
Goldman Pressing Machine Corp., 400 W. Broadway, New York 12, N. Y.
Goodman, A., & Co., 6211 Cottage Grove Ave., Chicago 37, Ill.
Goodrich, B. F., Co., 500 S. Main St., Akron 18, Ohio
Goodyear Tire & Rubber Co., Akron, Ohio
Gorton Heating Corp., Cranford, N. J.
Goulds Pumps, Inc., 300 Fall St., Seneca Falls, N. Y.
Graton & Knight Co., 371 Franklin St., Worcester 4, Mass.
Graver Tank & Mfg. Co., Inc., 4809 Tod Ave., East Chicago, Ind.
Greaves Machine Tool Co., 2001-17 Eastern Ave., Cincinnati 2, Ohio
Green, A. P., Fire Brick Co., Mexico, Mo.
Greenville Chemical Co., W. Washington St., Greenville, S. C.
Greenwood Textile Co., 390 Fenn St., Pittsfield, Mass.
Greif Bros. Cooperage Corp., Wire Garment Hanger Div., 2000 W. 25th St., Cleveland 13, Ohio
Grill, Samuel, Inc., 412 Eighth Ave., New York 1, N. Y.
Grimes Co., 2900 Main St., Dallas 1, Texas
Gronauer, M. H., Co., 11 Nettleton, Memphis 2, Tenn.
Gross Machinery Co., Inc., 179-191 Halbert St., Buffalo 14, N. Y.
Gulf Oil Corp.-Gulf Refining Co., 3800 Gulf Bldg., Pittsburgh 30, Pa.
Gummed Tape & Devices Co., 1318-20 60th St., Brooklyn 19, N. Y.
Gustin-Kramer Co., 74-80 Cummington St., Boston 15, Mass.
Guth, Edwin F., Co., 2615 Washington Ave., St. Louis 3, Mo.

H

Hachik Bleach Co., Wyunfield Ave., Philadelphia 31, Pa.
Haertel, Walter, Co., 2840 Fourth Ave., S., Minneapolis 8, Minn.
Hagan Corp., 323 Fourth Ave., Pittsburgh 22, Pa.
Hager Bros., 321 N. Water St., Rockford, Ill.
Hall, Amos H., & Sons, 5500 N. Water St., Philadelphia 20, Pa.
Hamilton Caster & Mfg. Co., 1101 Lincoln Ave., Hamilton, Ohio
Hamilton Copper & Brass Works, Div. Brighton Copper Works, Inc., 820 State Ave., Cincinnati 4, Ohio
Hammel-Dahl Co., 247 Richmond St., Providence 3, R. I.
Hammond Laundry-Cleaning Machinery Co., Hammond Bldg., Waco, Texas
Handy Bag Holder & Spreader Co., Vine St. & De Camp Ave., Cincinnati 15, Ohio
Handy Button Machine Co., 2255 S. Rockwell St., Chicago 8, Ill.
Handy Specialties, 9159 W. Pico Blvd., Los Angeles 35, Cal.
Hanscom, H. F., & Co., 38 Hospital St., Providence 3, R. I.
Hapman-Dutton Co., Dutton Boiler Div., 630 Gibson St., Kalamazoo 6, Mich.
Hardin, J. L., Co., Inc., 1263 Atlantic Ave., Brooklyn 16, N. Y.
Haring & Stephens Co., 635 McBride Ave., Paterson, N. J.
Harrison, Robert D., Inc., 566 E. Warren Ave., Detroit 2, Mich.
Hatters Supply House, Inc., 404 S. Wells St., Chicago 7, Ill.
Hauser-Stander Tank Co., 4838 Spring Grove Ave., Cincinnati 32, Ohio
Haynes Stellite Co., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Hays Corp., 742 E. Eighth St., Michigan City, Ind.
Healy-Ruff Co., 2255 University Ave., St. Paul 4, Minn.
Heinemann Electric Co., Pennsylvania Ave. & Plum St., Trenton 2, N. J.
Heller, B., & Co., 3925 Calumet Ave., Chicago 15, Ill.
Hellige, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
Hemingway & Bartlett Mfg. Co., 500 Fifth Ave., New York 35, N. Y.
Henrici Laundry Machinery Co., 11 Henrici St., Mattapan Station, Boston 26, Mass.
Henry Hanger Co. of America, 450 Seventh Ave., New York 1, N. Y.
Hercules Filter Corp., 204 21st Ave., Paterson 3, N. J.
Hercules Laundry Machinery Co., Inc., 132-36 W. 124th St., New York 27, N. Y.
Hercules Powder Co., 952 King St., Wilmington, Del.
Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo.
Hettrick Mfg. Co., 1401 Summit St., Toledo 1, Ohio
High Chemical Co., Chemical Specialties Div., 1760 N. Howard St., Philadelphia 22, Pa.
Hild Floor Machine Co., 740 W. Washington Blvd., Chicago 6, Ill.
Hinz Needle Co., 10018 S. Rhodes Ave., Chicago 26, Ill.
Hirsch, Leo H., & Co., 380 Second Ave., New York 10, N. Y.
Hodge, Farwell & Co., 1934 Sterling Ave., Elkhart, Ind.
Hollingsworth & Vose Co., 112 Washington St., East Walpole, Mass.
Holt Mfg. Co., 651-81 20th St., Oakland 12, Cal.
Hood Chemical Co., Inc., Crescent Div., 1937 S. Broad St., Philadelphia 48, Pa.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill.
Hooker Electrochemical Co., Niagara Falls, N. Y.
Hooper, Wm. E., & Sons, Woodberry, Baltimore, Md.
Hope Webbing Co., Providence 1, R. I.
Hopkins Equipment Co., 22 Maple Ave., Hatfield, Pa.
Horn, A. C., Co., Inc., 43-36 10th St., Long Island City 1, N. Y.
Houghton, E. F., & Co., 303 W. Lehigh Ave., Philadelphia 33, Pa.
House of Plastics, Div. Neon Sign Co., Inc., N. 14th at Taylor, Herrin, Ill.
Howe Paper Corp., 670 Young St., Tonawanda, N. Y.
Howe Scale Co., Rutland, Vt.
Hoyt Mfg. Corp., 994 Jefferson St., Fall River, Mass.
Hub Printing Services, 320 N. Euclid Ave., Oak Park, Ill.
Hubinger Co., 601 Main St., Keokuk, Iowa
Huebsch Div., American Laundry Machinery Co., 3775 N. Holton St., Milwaukee 1, Wisc.
Hungerford & Terry, Inc., 226 Atlantic Ave., Clayton, N. J.
Huntington Laboratories, Inc., 900-970 E. Tipton St., Huntington, Ind.
Huron Milling Co., 9 Park Pl., New York 7, N. Y.
Hygrade Button & Supply Co., 19 W. 34th St., New York 1, N. Y.

I

Ideal Industries, Inc., Sycamore, Ill.
Ideal Lighting Co., 2219 63rd St., Kenosha, Wisc.
Ideal Stencil Machine Co., 102 Iowa Ave., Belleville, Ill.
Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago 41, Ill.
Illinois Laundry Machinery Mfg. Co., 3128 W. Lake St., Chicago, Ill.
Imperial Dye House, 3421 Tulane Ave., New Orleans 19, La.
Imperial Laundry Machinery Co., 245 Huron St., Brooklyn 22, N. Y.
Indiana Dye House, 122-126 State St., Hammond, Ind.
Indiana Mfg. Co., 1900 E. Main St., New Albany, Ind.
Industrial Equipment Co., 361 N. Ada St., Chicago 7, Ill.
Industrial Grain Products, Ltd., 741 Talbot St., London, Ont., Can.
Industrial Laundry Machinery Co., Inc., Morgan Ave. cor. Stagg St., Brooklyn 6, N. Y.
Industrial Products Co., 2839 N. Fourth St., Philadelphia 33, Pa.
Infilco, Inc., 325 W. 25th Pl., Chicago 16, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Ink-O Products Co., 5101 Monte Vista St., Los Angeles 42, Cal.
Innis, Speiden & Co., 117 Liberty St., New York 6, N. Y.
International Boiler Works Co., Birch St., East Stroudsburg, Pa.
International Harvester Co., 180 N. Michigan Ave., Chicago, Ill.
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.
International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.
International Paper Co., Southern Kraft Div., 220 E. 42nd St., New York 17, N. Y.
International Salt Co., Scranton 2, Pa.
International Steel Wool Corp., 2205 Park Rd., Springfield, Ohio
International Tag & Salesbook Co., 319 N. Whipple St., Chicago 12, Ill.
International Ticket Co., 50 Grafton Ave., Newark 4, N. J.
International Wire Hanger Mfg. Co., 2128 W. Lake St., Chicago 12, Ill.
Inweaving Co. of America, 1505 11th St., Wichita Falls, Texas
Iowa Soap Co., 816 Valley St., Burlington, Iowa
Ironer Div., Speed Queen Corp., Algonquin, Ill.
Iron Fireman Mfg. Co., 3170 W. 106th St., Cleveland 11, Ohio

J

J & L Mfg. Co., 21 Castle Ave., Bridgeport 5, Conn.
Jacobson, Lawrence, Dye Works, Inc., Oxford Ave., Summerdale & Comly Sts., Philadelphia 24, Pa.
Jarvis & Jarvis, Inc., S. Main St., Palmer, Mass.
Jasper, T. G., Co., 1133 Broadway, New York 10, N. Y.
Jay-Dee, Inc., 946 Kenmore Blvd., Akron 14, Ohio
Jefferson Island Salt Co., Inc., Columbia Bldg., Louisville 8, Ky.
Jefferson Wood Working Co., 14th & Hill Sts., Louisville 10, Ky.
Jensen Mfg. Co., Broad St. & Hylton Rd., Palmyra, N. J.
Jerclaydon, Inc., P. O. Box 759, Miami Beach 39, Fla.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Johnson Chemical Industries, Inc., 99 Mellor Ave., Baltimore 28, Md.
Johnson Corp., 855 Wood St., Three Rivers, Mich.
Johnson Metal Hose, Inc., 226 Mill St., Waterbury 88, Conn.
Johnson, S. C., & Son, Inc., Racine, Wisc.
Johnson, W. F., Products Co., 309 Joliet Ave., San Antonio 9, Texas
Johnston Bros., Inc., 100 Pine St., Ferrysburg 1, Mich.
Johnston & Jennings Co., 877 Addison Rd., Cleveland 14, Ohio
Jones, C. Walker, Co., 6135 N. Lambert, Philadelphia 38, Pa.

K

Kamen Soap Products Co., Inc., 233 Broadway, New York 7, N. Y.
Kaplan's, David G., Drycleaner's Service (Katr Furs), 146 W. 29th St., New York 11, N. Y.
Karrick Co., 2100 McLendon Ave., N. E., Atlanta, Ga.
Kavco Co., 27-08 18th St., Long Island City, N. Y.
Kato Engineering Co., 122 Spruce St., Mankato, Minn.
Katz Bag Co., 6243 N. Western Ave., Chicago 45, Ill.
Kaye & MacDonald, Inc., 88-96 Franklin Ave., West Orange, N. J.
Keckley, O. C., Co., 400 W. Madison St., Chicago 6, Ill.
Keeler, E., Co., 238 West St., Williamsport 3, Pa.
Keever Starch Co., 548 E. Town St., Columbus 15, Ohio
Kelite Products, Inc., P. O. Box 2917, Terminal Annex Station, Los Angeles 54, Cal.
Kelley Iron Works, 801 W. First St., Charlotte, N. C.

Kelmaker Mfg. Co., 311 Sixth Ave., Rochelle, Ill.
Kelvinator Div., Nash-Kelvinator Corp., 14250 Plymouth Rd., Detroit, Mich.
Kem Laboratories, 101 E. 144th St., Bronx 51, N. Y.
Kendek Corp., Div. Tobin-Halpert, Inc., 254 Third St., Brooklyn 15, N. Y.
Kennedy Car Liner & Bag Co., Hodell & Prospect Sts., Shelbyville, Ind.
Kennedy Products Co., 4125 Orchard Lane, Cincinnati 36, Ohio
Kenney Softener & Filter Co., 3322-24 Montrose Ave., Chicago 45, Ill.
Kentucky Box & Truck Co., Fourth & Alvasia Sts. (P. O. Box 463), Henderson, Ky.
Kewanee Boiler Corp., Franklin St. & Q Tracks, Kewanee, Ill.
Keyes-Davis Co., 110 14th St., Battle Creek, Mich.
Keystone Aniline & Chemical Co., Inc., 321 N. Loomis St., (1400 W.), Chicago 7, Ill.
Keystone Laundry Machinery Co., 413 N. Oswego St., Chicago 22, Ill.
Keystone Tag Co., West Chester, Pa.
Key-Tag Checking System Co., 6509 Hough Ave., Cleveland 3, Ohio
Kidde, Walter, & Co., Inc., 675 Main St., Belleville 9, N. J.
Kimball, A., Co., 307 W. Broadway, New York 13, N. Y.
Kinford Co., 218 Lansdowne Ave., Wayne 1, Pa.
Kirk & Blum Mfg. Co., 2827 Spring Grove Ave., Cincinnati 23, Ohio
Kirk's Leather Cleaners, 7320 Melrose Ave., Los Angeles 46, Cal.
Kisco Boiler & Engineering Co., 2414 De Kalb St., St. Louis 4, Mo.
Kleenize, Inc., 1909 50th Pl., N., Birmingham 4, Ala.
Kletnick, L., & Co., 8342 S. Prairie Ave., Chicago 19, Ill.
Kliegman Bros., Inc., 76-01 77th Ave., Glendale, Brooklyn 27, N. Y.
Klipfel Mfg. Co., 1000 Weller Ave., Hamilton, Ohio
Knight, Maurice A., Settlement, Akron 6, Ohio
Knitted Padding Co., 105 Chapman St., Canton, Mass.
Kohnstamm, H., & Co., Inc., 83-93 Park Pl., New York 7, N. Y.
Kol Master Corp., First & Madison Sts., Oregon 1, Ill.
Kran-Mer Corp., 2433-35 N. Third St., Milwaukee 12, Wisc.
Kresky Mfg. Co., Inc., 307 Third St., Petaluma, Cal.
Krevit, H., & Co., Inc., 11 Albert St., New Haven 11, Conn.
Kuehne Chemical Co., 878 Woodruff Lane, Elizabeth, N. J.
Kunkle Valve Co., 119 S. Clinton St., Fort Wayne 2, Ind.
Kwik Kover Sales Co., 410 N. Kedzie St., Chicago 12, Ill.

L

Laclede Stoker Co., 4438 Hunt, St. Louis 10, Mo.
Ladlaw, W. A., Wire Co., Peoria, Ill.
Lally, R., Co., 1729 Greenleaf Ave., Chicago 26, Ill.
Lambouy Label & Wrapper Co., cor. Portage & Palmer Sts., Kalamazoo 29F, Mich.
Lanson Corp., Blower Div., 2507 James St., Syracuse, N. Y.
Lane, W. T., & Bros., Inc., Prospect St., Poughkeepsie, N. Y.
Lansing Bag & Specialty Co., 205 Front St., Harvard, Ill.
Larick Mfg. Co., 287 Broadway, New York, N. Y.
Larton Products Co., Inc., 4244 Third Ave., New York 57, N. Y.
Lattner, P. M., Mfg. Co., 1411 Ninth St., S.W., Cedar Rapids, Iowa
Laundry Chemicals Co., 4538 W. 130th St., Cleveland 11, Ohio
Laundry & Drycleaning Packaging Div., Majestic Paper & Twine Co., Inc., 155 Imlay St., Brooklyn 31, N. Y.
Laurel Co., 129 Grand St., Garfield 2, N. J.
Layne & Bowler, Inc., Box 215, Hollywood Station, Memphis 8, Tenn.
Le Ann Fine Furs, 311 Collinsville Ave., East St. Louis, Ill.
Leathers', L. M., Sons, Paper Products Div., 675 Pulaski St., Athens, Ga.
Leavitt Machine Co., 10 E. River St., Orange, Mass.
Lee Mfg. Co., 453 Taunton Ave., East Providence 14, R. I.
Leebaw Mfg. Co., 2525 Market St., Youngstown, Ohio
Leef Bros., Inc., 205 Irving Ave., N., Minneapolis 5, Minn.
Leffel, James, & Co., 426 East St., Springfield 99, Ohio
Leonard Pressing Machine Co., 1808 English St., High Point, N. C.
Leslie Co., 297 Grant Ave., Lyndhurst, N. J.
Levy, L. & H., Inc., 31 Greene St., New York 13, N. Y.
Lewis, G. B., Co., P. O. Box 377, Watertown, Wisc.
Lewis Invisible Stitch Machine Co., 129 W. 22nd St., New York, N. Y.
Lewis National Corp., 29 Sleeper St., Boston 10, Mass.
Lewis-Shepard Products, Inc., 307 Walnut St., Watertown 72, Mass.
Liberty Marking Tag Co., Inc., 27 Hooper St., Brooklyn 11, N. Y.
Life Products Co., 1103 N. Water St., Milwaukee 3, Wisc.
Lincoln Bag Co., Inc., 4200 W. Schubert Ave. (2700 N), Chicago 39, Ill.
Lincoln-Hudson Rug Dyers, Inc., 900 Passaic Ave., East Newark, N. J.
Lincoln Rug Co., Inc., 85 Springdale Ave., Newark, N. J.
Lincoln-Schluetter Floor Machinery Co., Inc., 512 S. Peoria St., Chicago, Ill.
Link-Belt Co., 300 W. Pershing Rd., Chicago 9, Ill.
Linn Coach & Truck Div., Great American Industries, Inc., 443 Chestnut St., Oneonta, N. Y.
Lion Uniform Co., 209 S. Jefferson, Dayton 2, Ohio
Liquid Conditioning Corp., 3101 N. 17th St., Philadelphia 32, Pa.
Liquidometer Corp., 39-21 Skillman Ave., Long Island City 1, N. Y.
Little Frenchman's Dye Works, 921 N. 23th St., Waco, Texas
Little Giant Specialties, 1547 Venice Blvd., Los Angeles 31, Cal.
Loebl Dye Works, Inc., Roanoke, Va.
Lookout Boiler & Mfg. Co., Manufacturers Rd., Chattanooga 1, Tenn.
Lorco Industries, Inc., 203 E. Benson St., Reading 15, Ohio
Los Angeles Soap Co., 617 E. First St., Los Angeles, Cal.
Louden Machinery Co., 1402 Broadway, Fairfield, Iowa
Loyal Textile Machinery Corp., 286 Scholes St., Brooklyn, N. Y.
Lubbock Machine Co., Inc., Box 1138, Lubbock, Texas
Lucas, Claude E., Associates, 880 E. Colorado, Pasadena, Cal.
Lucey Boiler & Mfg. Co., Chattanooga 2, Tenn.
Lunkenheimer Co., P. O. Box 360, Annex Station, Cincinnati 14, Ohio
Lynch, John P., Co., 1166 Howard St., San Francisco, Cal.

Mc

McBee Co., 295 Madison Ave., New York, N. Y.
McCleary Associates Inc., 612 N. Main St., Memphis, Tenn.
McDonnell & Miller, Inc., 3500 N. Spaulding Ave., Chicago 18, Ill.
McElmoyl, W. J., Co., 63 Church St., Groveville, N. J.
McGrane Bros., 44 Court St., Brooklyn 2, N. Y.
McLay, Walter J., 1103 N. Water St., Milwaukee 2, Wisc.
McLeod & Henry Co., Inc., 351 First St., Troy, N. Y.

M

M. B. Mfg. Co., Inc., 1060 State St., New Haven, Conn.
M & B Metal Products Co., 4415 Morris Ave., Birmingham, Ala.
Maas, A. R., Chemical Co., 4570 Ardine St., South Gate, Cal.
Macbeth Corp., 227 W. 17th St., New York 11, N. Y.
Mack Trucks, Inc., 350 Fifth Ave., New York 1, N. Y.
Madison Products Co., 105 16th St., Toledo 2, Ohio
Magic Re-Weaving Service, 28 W. Second St., Salt Lake City, Utah
Magic-Seal Paper Products, 883 E. Hudson, Columbus 11, Ohio
Magic Textile Weavers, 948 W. McNichols Rd., Detroit 3, Mich.
Magla Products, 310-312 Washington St., Newark 2, N. J.
Magnus Chemical Co., Inc., South Ave., Garwood, N. J.
Majestic Dye House, 3920 W. Armitage Ave., Chicago 47, Ill.
Malleable Iron Fittings Co., Branford, Conn.
Mallinckrodt Chemical Works, Second & Mallinckrodt Sts., St. Louis 7, Mo.
Manitowoc Cotton Goods Mfg. Co., 813 S. Eighth St., Manitowoc, Wisc.
Manitowoc Mfg. Div., Manitowoc Shipbuilding Co., 512 16th St., Manitowoc, Wisc.
Manning, Maxwell & Moore, Inc., 250 E. Main St., Stratford, Conn.
Marion Machine Foundry & Supply Corp., 90 West St., New York, N. Y.
Marion Mfg. Co., 473 Stevens, S.W., Atlanta 4, Ga.
Market Forge Co., 25 Garvey St., Everett 49, Mass.
Market Industries, Inc., 209 Utah St., San Francisco, Cal.
Mark-O Corp., 17 W. 60th St., New York 23, N. Y.
Mark-Tex Corp., 453 W. 17th St., New York 11, N. Y.
Marlow Pumps, Greenwood Ave., Ridgewood, N. J.
Mar-Mak Rug Machinery Mfg. Co., 626 N. Logan Ave., Danville, Ill.
Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind.
Marsh, Jas. P., Corp., 2073 Southport Ave., Chicago 14, Ill.
Marshall Heater Co., 716-26 E. Monument Ave., Dayton 2, Ohio
Martin Equipment Corp., 777 Hertel Ave., Buffalo 7, N. Y.
Martin Fan & Blower Co., 4634 W. 21st Pl., Chicago 50, Ill.
Marvel Mfg. Co., 113 Live Oak St., San Antonio 2, Texas
Marvel Marking Machine Co., 1433 Blake St., Denver, Colo.
Mason-Neilan Regulator Co., 1190 Adams St., Boston 24, Mass.
Master Machinery Co., Anderson, Ind.
Master Products Co., 7000 S. Wentworth Ave., Chicago 21, Ill.
Mathieson Chemical Corp., Mathieson Bldg., Baltimore 3, Md.
Maxant Button & Supply Co., 117 S. Morgan St., Chicago 7, Ill.
Mead, George E., Co., 11240 S. Arroyo Dr., Whittier, Cal.
Mears-Kane-Ofeldt, Inc., P. O. Box 223, Bridgeport, Pa.
Medalie Mfg. Co., 213 First Ave., N., Minneapolis 1, Minn.
Meese, Inc., 1948 Madison St., Madison, Ind.
Mehl Mfg. Co., 2057 Reading Rd., Cincinnati 2, Ohio
Memphis Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.
Menasha Wood Split Pulley Co., 674 Tayco St., Menasha, Wisc.
Mendex Corp., 2300 Payne Ave., Cleveland 14, Ohio
Merchants Chemical Co., Inc., 60 E. 42nd St., New York 17, N. Y.
Mercury Cleaning Systems, Inc., 549 W. Washington Blvd., Chicago 6, Ill.
Merson Products Co., 63 Essex St., Jersey City, N. J.
Metalastic Mfg. Corp., 536 Broad St., Glen Rock, N. J.
Metropolitan Body Co., 151 Kossuth St., Bridgeport 8, Conn.
Mettler, Lee B., Co., 406 S. Main St., Los Angeles 13, Cal.
Mexico Refractories Co., Love & Cole Sts., Mexico, Mo.
Meyercord Co., 5323 W. Lake St., Chicago 44, Ill.
Midland Color & Chemical Co., 15 Greene St., Jersey City 2, N. J.
Midland Paint & Varnish Co., 9123 Reno Ave., Cleveland 5, Ohio
Mid-West Laundry Machinery Mfrs., 4325 W. Lincoln Ave., Milwaukee, Wisc.
Miller Co., 99 Center, Meriden, Conn.
Miller Laundry Machinery Co., 8341 Lyndon Ave., Detroit 21, Mich.
Milwaukee Leather Belting Co., 531 N. Broadway, Milwaukee 2, Wisc.
Milwaukee Printed String Co., 2604 W. Fond du Lac Ave., Milwaukee 6, Wisc.
Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh 8, Pa.
Minnesota Chemical Co., 2285 Hampden Ave., St. Paul 4, Minn.
Mitchell, J. B., Co., 4916-28 W. Jefferson Blvd., Los Angeles 18, Cal.
Modine Mfg. Co., Racine, Wisc.
Moeller Instrument Co., Inc., 132nd St. & 89th Ave., Richmond Hill 18, N. Y.
Mohawk Rubber Co., 1235 Second Ave., Akron 5, Ohio
Mohl, Hedda, Colorado Springs, Colo.
Monite Co., Inc., 4903 Delmar Blvd., St. Louis 8, Mo.
Monroe Co., Inc., 10703 Quebec Ave., Cleveland 6, Ohio
Montpelier Mfg. Co., Montpelier, Ohio
Moore Business Forms, Inc., 900 Buffalo Ave., Niagara Falls, N. Y.
Moore Co., 544 Westport Rd., Kansas City 2, Mo.
Moore's Time Saving Equipment Co., 1934 S. Sterling Ave., Elkhart, Ind.
Morehead Mfg. Co., 2455 W. Warren Ave., Detroit 8, Mich.
Morheat Sales Co., 700 E. Kalamazoo St., Lansing 12, Mich.
Morse Display Cases, 201 N. Wells St., Chicago, Ill.
Mosse Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
Mortemoth Chemical Laboratories, 3178 N. Fratney St., Milwaukee 12, Wisc.
Mower Bag & Paper Co., 3049 E. 55th St., Cleveland 4, Ohio
Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 1, Minn.
Mund Boilers, Inc., 1600 N. Indiana St., Los Angeles 33, Cal.
Murphy Sales Co., P. O. Box 153, St. Simons Island, Ga.
Murray, D. J., Mfg. Co., 1002-24 Third St., Wausau, Wisc.
Mutual Paper Box Co., Inc., 510 W. 27th St., New York 1, N. Y.
Myer, Henry, Thread Mfg. Co., 319 W. Van-Buren St., Chicago 7, Ill.

N

Nagel Coat Hanger Co., 1200-18 Oliver St., Houston 7, Texas
Nashua Gummed & Coated Paper Co., Surehold Div., Franklin St., Nashua, N. H.
Nashua Textile Co., 246 Fifth Ave., New York 1, N. Y.
National Airoil Burner Co., Inc., 1267 E. Sedgley Ave., Philadelphia 34, Pa.
National Aluminate Corp., 6215 W. 66th St., Chicago 38, Ill.
National Aniline Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
National Boiler Protector Co., Reibold Bldg., Dayton 2, Ohio
National Bundle Tyer Co., Blissfield, Mich.
National Cash Register Co., Main & K Sts., Dayton 9, Ohio
National Chemical Sales Co., Laboratory, Inc., 414-16-18 Sixth St., N. W., Atlanta, Ga.
National Cleaners Chemical Mfg. Co., 2807-11 W. Lake St., Chicago 12, Ill.
National Dryer Mfg. Co., 2500 60th St., Kenosha, Wisc.
National Dye House, 5812 W. Washington Blvd., Culver City, Cal.
National Dye Works, Inc., 3513 Washington Blvd., Baltimore 22, Md.
National Indemnity Exchange, 3820 Washington Blvd., St. Louis 8, Mo.
National Institute of Cleaning & Dyeing, Silver Spring, Md.
National Life Insurance Co., Montpelier, Vt.
National Marking Machine Co., 4026 Cherry St., Cincinnati 23, Ohio
National Milling & Chemical Co., 4601 Nixon St., Philadelphia 27, Pa.
National Paper Band Co., P. O. Drawer 126, Denver, Colo.
National Paper & Type Co., 120 Wall St., New York 5, N. Y.
National Repair Services, 615 E. Main St., Richmond 19, Va.
National Starch Products, Inc., 270 Madison Ave., New York 17, N. Y.
National Steam Pump Co., 701 W. Johnson, Upper Sandusky, Ohio
National Tag & Label Corp., 19 Bridge St., Watertown 42, Mass.
National Textile Conservation Div., Research Laboratories, Sherron Acres, Durham, N. C.
National Truck Leasing System, 23 E. Jackson Blvd., Chicago 4, Ill.
Necchi Sewing Machine Sales Corp., 164 W. 25th St., New York 1, N. Y.
Neon Sign Co., Inc., House of Plastics Div., N. 14th at Taylor, Herrin, Ill.
Neva-Clog Products, Inc., 506 Logan St., Bridgeport 1, Conn.
Nevinger Mfg. Co., Inc., Harris Ave., Greenville, Ill.
New Departure, Div. General Motors Corp., Bristol, Conn.
Newhouse Co., 1247 E. Colorado Blvd., Glendale, Cal.
New York High Grade Button Works, 3569 Broadway, New York 31, N. Y.
New York Net Co., 2535 Webster Ave., New York 58, N. Y.
New York Pressing Machinery Corp., 880 Broadway, New York 3, N. Y.
New York Telecoin Corp., 12 E. 44th St., New York 17, N. Y.
New York Twine Corp., 43 W. 36th St., New York 18, N. Y.
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Nicholson, W. H., & Co., 12 Oregon St., Wilkes-Barre 1, Pa.
Nicholson, Wm. J., Laboratories, 2971 W. Davidson, Detroit, Mich.
No-Dam Co., 618 N. Wells St., Chicago 10, Ill.
Nopco Chemical Co., Inc., First & Essex Sts., Harrison, N. J.
Norman & Co., 531 N. Milwaukee Ave., Chicago 22, Ill.
North American Electric Lamp Co., 1090 Tyler St., St. Louis 6, Mo.
North American Mfg. Co., 4533 E. 71st St., Cleveland, Ohio
North Coast Chemical & Soap Works, 6307-21 17th Ave., S., Seattle 8, Wash.
Northeastern Soap & Chemical Co., Clinton St., Amesbury, Mass.
Northern Equipment Co., 1945 Grove Dr., Erie, Pa.
Norton & Williams, Inc., 608 North Ave., Westfield, N. J.
Nu-Life Mfg. Co., P. O. Box 2942, St. Louis 17, Mo.
Nuodex Products Co., Inc., 830 Magnolia Ave., Elizabeth, N. J.
Nu-Pro Mfg. Co., 2918 Washington Ave., St. Louis 3, Mo.
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
Nycco Products Co., 110 W. 29th St., New York 1, N. Y.
Nylon Textile Products Co., Inc., 601 W. 26th St., New York 1, N. Y.

O

Oakite Products, Inc., 22B Thames St., New York 6, N. Y.
O'Brien Steam Specialty Co., Inc., 205 Harrison St., Syracuse 2, N. Y.
Ohio Centrifugals Co., 342 S. Monument Ave., Hamilton, Ohio
Ohio Injector Co., 105 Main St., Wadsworth, Ohio
Ohio Mechanics Institute, Central Parkway & Walnut St., Cincinnati 10, Ohio
Ohmer Register Co., 740 Bolander Ave., Dayton, Ohio
Oil-Rite Corp., 3434 S. 13th St., Milwaukee 7, Wisc.
Oil States Petroleum Co., Inc., 233 Broadway, New York, N. Y.
OlsenMark Corp., 124 White St., New York 13, N. Y.
Olson, J. B. E., Corp., 1740 Broadway, New York 19, N. Y.
Olson Filtration Engineers, Inc., 1624 N. Kilbourn Ave., Chicago 39, Ill.
Omaha Dye Works, 24th & Poppleton, Omaha, Nebr.
Ontario Iron Works, 32 Park St., Pulaski, N. Y.
Orr Felt & Blanket Co., Piqua, Ohio
Orr & Sembower, Inc., P. O. Box 1138, Reading, Pa.
Osborn Bros., 223 W. Jackson Blvd., Chicago 6, Ill.
Oshkosh Filter & Softener Co., 51 Ceape St., Oshkosh, Wisc.
Outside Venetian Blind Co., 2625 Elm St., Dallas 1, Texas
Owens-Corning Fiberglas Corp., Nicholas Bldg., Toledo 1, Ohio

P

Paasche Airbrush Co., 1909 W. Diversey Parkway, Chicago 14, Ill.
Pabst Sales Co., 221 N. LaSalle St., Chicago 1, Ill.
Pacific Car & Foundry Co., Renton, Wash.
Pacific Coat Hanger Mfg. Co., 6710 Avalon Blvd., Los Angeles 3, Cal.
Package Chemical Co., Inc., 218 W. First St., Boston 27, Mass.
Package Masters, 2525 S. Wabash Ave., Chicago 16, Ill.
Packless Metal Products Corp., 31 Winthrop Ave., New Rochelle, N. Y.
Padcraft Corp., 480 W. Front St., Red Bank, N. J.
Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
Pak-Rite Flexible Packaging Co., 135 W. 20th St., New York 11, N. Y.
Pantex Mfg. Corp., 521 Roosevelt Ave., Pawtucket, R. I.
Paper Chemicals, Inc., 510 W. 27th St., New York 1, N. Y.
Para-Lux Products Co., 4158 W. Schubert Ave., Chicago 39, Ill.
Pargament-Fidler, Inc., 307 Canal St., New York 13, N. Y.
Parisian Novelty Co., 3510 S. Western Ave., Chicago 9, Ill.
Parker, Sid E., Boiler Mfg. Co., Inc., 2035 E. 37th St., Los Angeles 11, Cal.
Patek & Co., 1900 16th St., San Francisco 1, Cal.
Patterson-Kelley Co., Inc., 104 Warren St., East Stroudsburg, Pa.
Patterson Laboratories, Inc., 1633 Bagley Ave., Detroit 16, Mich.
Paulin Products Co., 4444 Lawndale Ave., Lyons, Ill.
Payson Mfg. Co., 2916 W. Jackson Blvd., Chicago 12, Ill.
Peabody Engineering Corp., 580 Fifth Ave., New York, N. Y.
Peerless Pump Div., Food Machinery Corp., 301 West Ave., 26, Los Angeles 31, Cal.
Pellerin Milnor Corp., 8000 Edinburgh St., New Orleans 18, La.
Penick & Ford, Ltd., Inc., 420 Lexington Ave., New York 17, N. Y.
Pennington Co., Riverview Ave., Gillette, N. J.
Penn Novelty Co., 228-30 N. 13th St., Philadelphia 2, Pa.
Pennsylvania Rubber Co., Penn-Craft Park, Jeannette, Pa.
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa.
Perelmutter, M., & Co., 4423-25 Broadway, Chicago 40, Ill.
Perfection Marking Machine Co., 441 Detroit St., Denver 6, Colo.
Perfection Products Co. & Identification, Inc., 550 W. Harrison St., Chicago 7, Ill.
Pertex Corp., 500 W. Oklahoma Ave., Milwaukee 7, Wisc.
Perma Products Co., P. O. Box 25, Linwood Station, Detroit 6, Mich.
Permafiber Corp., 450 Seventh Ave., New York 1, N. Y.
Perm-Aseptic Corp., 432 Waverly Ave., Mamaroneck, N. Y.
Per-Mo Products Co., 3602 Woodland Ave., Kansas City 3, Mo.
Permutit Co., 330 W. 42nd St., New York 18, N. Y.
Perry, E. J., & Co., 1329 Rockdale Ave., New Bedford, Mass.
Pest Control Equipment Co., 47 W. 43rd St., New York 18, N. Y.
Petroleum Heat & Power Co., Stamford, Conn.
Phenix Supply Co., 361 Central Ave., S. W., Atlanta 3, Ga.
Philadelphia Belting Co., Sixth & Spring Garden Sts., Philadelphia 23, Pa.
Philadelphia Quartz Co., 1160 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa.
Philco Corp., Storage Battery Div., 467 Calhoun St., Trenton 7, N. J.
Phoenix Oil Co., 9505 Cassius Ave., Cleveland 5, Ohio
Phoenix Products Co., 4715 N. 27th St., Milwaukee 9, Wisc.
Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
Pick Mfg. Co., 255 S. Main St., West Bend, Wisc.
Pioneer Development Co., 1059 Ingraham St., Los Angeles 14, Cal.
Pittsburgh Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.
Pittsburgh Plate Glass Co., Paint Div., 632 Duquesne Way, Pittsburgh, Pa.
Pittsburgh Tag Co., 1112-20 Galveston Ave., Pittsburgh 33, Pa.
Pittsburgh Waterproof Co., 2537 Penn Ave., Pittsburgh 22, Pa.
Fabrico Jointless Firebrick Co., 1809 Kingsbury St., Chicago 14, Ill.
Pneumatic Engineering & Sales, 1010 Des Moines Bldg., Des Moines, Iowa
Pocock, M. A., 1234 Central Ave., N.E., Minneapolis 8, Minn.
Poland Laundry Machinery Co., 47 Kemble St., Boston 19, Mass.
Popkins Studios Fixtures, Inc., 6805 Easton Ave., St. Louis 14, Mo.
Poro-Pres Co., 1221 N. 68th St., Milwaukee 13, Wisc.
Porto-Fab Co., Inc., 9215 Weiss St., Dallas 9, Texas
Powers Regulator Co., 2810 Greenview Ave., Chicago 14, Ill.
Preferred Utilities Mfg. Corp., 1860 Broadway, New York 23, N. Y.
Pre-Marked Strip Tag Co., 3232 India St., San Diego 1, Cal.
Pres-Grip Corp., 3108 Main St., Buffalo 14, N. Y.
Procter & Gamble Distributing Co., Gwynne Bldg., P. O. Box 599, Cincinnati 2, Ohio
Proctor & Schwartz, Inc., Seventh St. & Tabor Rd., Philadelphia 20, Pa.
Progressive Textile Mfg. Co., 3252 River Ave., Camden 5, N. J.
Proportioneers, Inc., P. O. Box 1442, Providence, R. I.
Prosperity Co., Inc., 2131-2171 Erie Blvd., E., Syracuse 1, N. Y.
Prym, William, Inc., Dayville, Conn.
Pullclean Towel Cabinet Co., Inc., 430-36 W. 54th St., New York 19, N. Y.
Purkett Mfg. Co., 325 E. Third St., Joplin, Mo.
Pyrene Mfg. Co., 560 Belmont Ave., Newark 8, N. J.
Pyrometer Instrument Co., Inc., Bergenfield 33, N. J.

Q

Quality Products Co., 3050 Montrose, Chicago 18, Ill.
Quigley Co., Inc., 527 Fifth Ave., New York 17, N. Y.

R

Radiant Drying Co., 1680 Vine St., Los Angeles 28, Cal.
Radiator Specialty Co., 1700-1900 Dowd Rd., Charlotte 1, N. C.
Rainbow Dye Works, 109 S. 16th St., Louisville 2, Ky.
Ramelli, Rudolph, Inc., 1700 Poydras, New Orleans 6, La.
Ramtite Co., Div S. Obermayer Co., 2563 W. 18th St., Chicago 8, Ill.
Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.
Rapids-Standard Co., 308 People's National Bank Bldg., Grand Rapids 2, Mich.
Rassenloss Bag Co., Inc., 1904 Grove St., Glenview, Ill.
Raybestos-Manhattan, Inc., 61 Willett St., Passaic, N. J.
Rayochem Products Co., 20 E. 19th St., Paterson 4, N. J.
Ray Oil Burner Co., 401-499 Bernal Ave., San Francisco 12, Cal.
Reading-Pratt & Cady, Div. American Chain & Cable Co., Inc., Tulpehocken St. & Lebanon Valley R. R., Reading, Pa.
Reed Mfg. Co., 1425 W. Eighth St., Erie, Pa.
Reed-Stabin, Inc., 504 62nd St., Brooklyn 20, N. Y.
Rees-Davis Drugs, Inc., Meriden, Conn.
Reeves Bros., Inc., 54 Worth St., New York 13, N. Y.
Refinite Corp., Omaha, Nebr.
Reintjes, George P., 2515-17 Jefferson St., Kansas City 10, Mo.

Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc., 238 Eagle St., Brooklyn 22, N. Y.
Reliable Steam Pressing Machine Service, Inc., 175 Bergen St., Newark 3, N. J.
Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio
Rema Corp., Box 86, Norwalk, Conn.
Remington Rand Co., 315 Fourth Ave., New York, N. Y.
Renard's, 741 Madison Ave., New York 21, N. Y.
Reo Motors, Inc., 1314 S. Washington Ave., Lansing 20, Mich.
Repel-O-Products Div., North American Merchandising Co., Transportation Bldg., Detroit 26, Mich.
Republic Flow Meters Co., 2240 W. Diversey Parkway, Chicago 47, Ill.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio
Research Laboratories Corp., P. O. Box 388, Durham, N. C.
Research Products Corp., 1011 E. Washington Ave., Madison 3, Wisc.
Resillo Co., 2328 W. Nelson St., Chicago 18, Ill.
Resisto Laboratories, 1266 Donald Ave., Lakewood, Ohio
Resistoflex Corp., 39 Planson Rd., Belleville 9, N. J.
Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y.
Revere Electric Mfg. Co., 6009 N. Broadway, Chicago 40, Ill.
Revolite Div. (Atlas Powder Co.), Ludlow St., Stamford, Conn.
Rey-Var Products Co., 53 Clark St., Hamburg, N. Y.
Rhodes, Preston T., 520-22 N. 61st St., Philadelphia, Pa.
Risdon Mfg. Co., 14 Risdon St., Naugatuck, Conn.
Riverside Chemical Co., Inc., 871-947 River Rd., North Tonawanda, N. Y.
Riverside Mfg. Co., 4919-27 Connecticut St., St. Louis 9, Mo.
Roberts-Modaber Co., Inc., 1035 W. Lake, Chicago, Ill.
Roberts Numbering Machine Co., 705 Jamaica Ave., Brooklyn 8, N. Y.
Robins, G. S., & Co., 126 Chouteau St., St. Louis, Mo.
Robinson's Weaving System, Lebanon, Ind.
Robot Laundry Machinery Sales, Wolf Ave., Chambersburg, Pa.
Rochester Can Co., 114 Greenleaf St., Rochester 9, N. Y.
Rockwell, W. S., Co., 240 Eliot St., Fairfield, Conn.
Rodin Machinery Co., Div. Rodin Bros., 930 E. 43rd St., Chicago 15, Ill.
Roller Bearing Co. of America, Whitehead Rd., Trenton 3, N. J.
Rome Soap Mfg. Co., Sixth St., Rome, N. Y.
Ronaflex Tubing Co., Inc., Packard Bldg., Philadelphia 2, Pa.
Root & Co., 11 Ionia, S. W., Grand Rapids 2, Mich.
Roots-Connersville Blower Corp., 900 W. Mount St., Connersville, Ind.
Rosenthal Mfg. Co., 5035 N. Kedzie Ave., Chicago 25, Ill.
Rosenthal Paper Co., 200 Lynch St., St. Louis 18, Mo.
Roth, Roy E., Co., 2430 Fourth Ave., Rock Island, Ill.
Rothleder, Mannie, Co., 50 W. 29th St., New York, N. Y.
Rubber City Mfg. Co., 714 N. Main St., Akron 10, Ohio
Ruberoid Co., 500 Fifth Ave., New York 18, N. Y.
Rubinoff, M., Co., 154-156 W. 27th St., New York 1, N. Y.
Ruggles, Klingemann Mfg. Co., Foster Court, Salem, Mass.
Ruland & Oas Mfg. Co., 245 Maple Ave., North Girard, Pa.
Runford Chemical Works, 21 Newman Ave., Rumford 16, R. I.
Russell Mfg. Co., Middletown, Conn.

S

Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio
St. Louis Sticker Co., 1906 Fine St., St. Louis 9, Mo.
Salisbury Mfg. Co., Box 1523, Providence, R. I.
Salomon, L. A., & Bro., 216 Pearl St., New York 7, N. Y.
Sani-Top Co., R. D. 1, Stepney Depot, Conn.
Sarco Co., Inc., Empire State Bldg., New York, N. Y.
Savi Mothproofing Co., 410 N. Kedzie St., Chicago 12, Ill.
Schaub, Fred H., Engineering Co., Inc., 2110 S. Marshall Blvd., Chicago 23, Ill.
Schirmer-Dornbirer Pump Co., 1719 E. 39th St., Cleveland 14, Ohio
Schor Paper Co., 56 W. 45th St., New York 19, N. Y.
Schorsch & Co., Inc., 120 Bruckner Blvd., New York 54, N. Y.
Schramm, Inc., West Chester, Pa.
Schutte & Koerting Co., Cornwells Heights, Bucks County, Pa.
Schwartz, B. W., Co., Box 205, Washington St., Two Rivers, Wisc.
Schwitzer-Cummins Co., 1145 E. 22nd St., Indianapolis 7, Ind.
Seamless Company, Inc., 41-23 24th St., Long Island City 1, N. Y.
Sec-O-Matic Corp., 55 LaFrance Ave., Bloomfield, N. J.
Security Fur Seal Co., Inc., 144 W. 27th St., New York 1, N. Y.
Sellers Engineering Co., 4876 N. Clark St., Chicago 40, Ill.
Seneca Dyers, Inc., 1227 Maple St., Rochester 11, N. Y.
Sergeant, E. M., Pulp & Chemical Co., Inc., 7 Dey St., New York 7, N. Y.
Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio
Shane Uniform Co., Inc., 2013 W. Maryland, Evansville 7, Ind.
Shedlov-Heinz Mfg. Co., 15-B Wilder St., Minneapolis 1, Minn.
Shell Oil Co., Inc., 50 W. 50th St., New York 20, N. Y.
Shields Engineering & Mfg. Co., 277 E. 156th St., Cleveland 10, Ohio
Shuler Conveyors, Inc., 43 Hutcheson Place, Lynbrook, N. Y.
Sibur Mothproof Co., P. O. Box 956, Colorado Springs 3, Colo.
Siebring Mfg. Co., 100 Owen St., George, Iowa
Signal Chemical Mfg. Co., 2650 Wood Hill Rd., Cleveland 4, Ohio
Silkclean Mfg. Co., P. O. 512, Chicago 90, Ill.
Simmons Machine Co., 5118 Lincoln Ave., Chicago 25, Ill.
Simplex Oil Heating Co., 11 Park Pl., New York 7, N. Y.
Simplex Time Recorder Co., 24 S. Lincoln St., Gardner, Mass.
Singer Sewing Machine Co., 149 Broadway, New York 6, N. Y.
Sirotta, Bernard, Co., 620 Smith St., Brooklyn 31, N. Y.
Skelly Oil Co., 47th St. & Penn Ave. (605 W. 47), Kansas City, Mo.
Slater-Robbins Co., Inc., 28-44 Borden Ave., Long Island City, N. Y.
Smith, Drum & Co., Allegheny Ave. below Fifth, Philadelphia, Pa.
Smith, Frank B., Co., 503 Front St., Orange, Texas
Smith, George, Mfg. Co., 1323 W. Carroll Ave., Chicago 7, Ill.
Smith, Gilman B., Co., Inc., 915 Broadway, New York 10, N. Y.
Smith, Laurence C., 1526 Valley Dr., Syracuse, N. Y.
Smith, R. B., Co., 1609 S. Nevada Ave., Colorado Springs, Colo.
Smith, N. S., Inc., Box 272, Red Bank, N. J.
Socony-Vacuum Oil Co., Inc., 26 Broadway, New York 4, N. Y.
Solvay Sales Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
Sonneborn, L., Sons, Inc., 88 Lexington Ave., New York 16, N. Y.
Southeastern Textile Co., 222 E. Solomon St., Griffin, Ga.
Southern Mills, Inc., 585 Wells St., S. W., Atlanta, Ga.
Sparks Pad Co., 7712 Denton Dr., Dallas 9, Texas
Spear Box Co., Inc., 270 11th Ave., New York 1, N. Y.
Speare Co., 2235 S. Ford Ave., Chicago 16, Ill.
Specialty Devices Co., 805 E. 26th St., Norfolk 4, Va.
Speed Products Co., Inc., 37-18 Northern Boulevard, Long Island City 1, N. Y.
Speedy Washer Mfg. Co., 5500 N.W. Second Ave., Miami, Fla.
Spencer Turbine Co., 486 New Park Ave., Hartford, Conn.
Spix Products Co., 119 Dahlem St., Pittsburgh 6, Pa.
Spotswood Parker & Co., 313 Techwood Dr., N. W., Atlanta, Ga.
Squires, C. E., Co., 18502 Syracuse Ave., Cleveland 10, Ohio
Stadham Co., Inc., 1825-31 N. 20th St., Philadelphia 21, Pa.
Stadler Textile Weavers, 312 E. Wisconsin Ave., Milwaukee, Wisc.
Stafford, N., Co., 53rd & First Ave., Brooklyn 20, N. Y.
Stainpruf Mfg. Co., 2032 E. Seventh St., Los Angeles 21, Cal.
Staley, A. E., Mfg. Co., 220 Eldorado, Decatur 60, Ill.
Stamford Chemical Co., 60 Spruce St., Stamford, Conn.
Stampagraph Co., Inc., 79 Alexander Ave., Bronx 54, N. Y.
StamPatch Magic Mender, Elbow Lake, Minn.
Standard Chemical Works Co., 1987 E. Main St., Columbus 9, Ohio
Standard Fire Insurance Co., 151 Farmington Ave., Hartford, Conn.
Standard Garment Co., 2283 Fulton St., Toledo 10, Ohio
Standard Laundry & Cleaning Machinery Co., 6900 Maple Ave., Dallas 2, Texas
Standard Oil Co., 910 Michigan Ave., Chicago 80, Ill.
Standard Register Co., 3005 Campbell St., Dayton 1, Ohio
Standard Soap Co. of Camden, 205 S. Second St., Camden, N. J.
Stanley, John T., Co., Inc., 626-66 W. 30th St., New York, N. Y.
Starr Soap & Chemical Co., 139 Main St., Cambridge, Mass.
Star Service Hanger Div., L. A. Young Spring & Wire Corp., 9200 Russell St., Detroit 11, Mich.
Stauffer Chemical Co., 420 Lexington Ave., New York 17, N. Y.
Steamaster Automatic Boiler Co., 5819 Compton Ave., Los Angeles 11, Cal.
Steamaster Co., Inc., 110 W. 30th St., New York 1, N. Y.
Steam Engineering & Sales Co., 1818 W. 47th St., Chicago, Ill.
Stebbins Mfg. & Supply Co., 1735 Blake St., Denver 2, Colo.
Steelcote Mfg. Co., 3418 Gratiot, St. Louis 3, Mo.
Steele Canvas Basket Co., Inc., 199 Concord Turnpike, Box 64, Cambridge 40, Mass.
Steele, J. W., & Co., 12th Ave. & Howell, North Kansas City 16, Mo.
Steel Products Engineering Co., 1205 Columbia St., Springfield, Ohio
Steigler, George, Co., 8 Forest Ave., Cincinnati, Ohio
Stein, Lawrence M., Co., 815-25 W. Van Buren St., Chicago 7, Ill.
Steiner Sales Co., 225 W. Chestnut St., Chicago 10, Ill.
Steinman Paper Co., 1302 N. Halsted Ave., Chicago 22, Ill.
Stephens-Adamson Mfg. Co., Ridgeway Ave., Aurora, Ill.
Sterling, Inc., 3738 N. Holton St., Milwaukee 12, Wisc.
Sterling Engineering & Mfg. Corp. (Templeton Mfg. Co.), Reservation Rd., Hyde Park 36, Mass.
Sterling Supply Corp., 1 Porter St., Philadelphia 48, Pa.
Stewin Chemicals, Inc., 1450 Broadway, New York 18, N. Y.
Stevenson Co., Stevenson, Conn.
Stevenson, Jordan & Harrison, Inc., 205 W. Wacker Dr., Chicago 6, Ill.
Stewart-Warner Corp.—Alemite Corp., 1826 Diversey Parkway, Chicago 14, Ill.
Stichl, Herman, Co., Inc., 27 Park Pl., New York 7, N. Y.
Stitt-Reed, Inc. and/or Wm. A. Reed & Co., Inc., 8432 44th Pl., Lyons, Ill.
Stomac Engineering Co., Inc., 2000 W. 25th, Cleveland 13, Ohio
Stout, David, & Sons, 7016 Manchester St., St. Louis 17, Mo.
Stover Water Softener Co., Stover Bldg., St. Charles, Ill.
Street, R. B., & Co., Inc., 561 W. Monroe St., Chicago 6, Ill.
Strike's Laundry Machinery, Inc., 221 N. Westmoreland, Los Angeles 4, Cal.
Stromberg Time Corp., 109 Lafayette St., New York 13, N. Y.
Strong, Carlisle & Hammond Co., 1392 W. Third St., Cleveland 13, Ohio
Stry-Lenkoff & Co., 815 E. Market St., Louisville 6, Ky.
Studebaker Corp., South Bend, Ind.
Subox, Inc., 347 River Rd., North Arlington, N. J.
Suedecare, Inc., 50 Station Plaza, Hempstead 1, N. Y.
Sun Fluorescent Electric Co., 1655 Bedford Ave., Brooklyn 25, N. Y.
Superior Combustion Industries, Inc., 1475 Broadway, New York 18, N. Y.
Superior Products Co., 148 Pearl St., Somerville 45, Mass.
Superior Rug Machinery Co., 2738 N. Sheffield Ave., Chicago 14, Ill.
Super Laundry Machinery Co., Div. St. Joe Machines, Inc., State & Water Sts., St. Joseph, Mich.
Sure-Hold Div., Nashua Gummed & Coated Paper Co., Franklin St., Nashua, N. H.
Sureloc Paper Clip Co., Kenyon Ave., Wakefield, R. I.
Swift & Co., Union Stock Yards, Chicago 9, Ill.
Sylvania Div., American Viscose Corp., 122 E. 42nd St., New York 17, N. Y.
Sylvania Electric Products, Inc., 500 Fifth Ave., New York N. Y.

T

Taco Heaters, Inc., 137 South St., Providence 3, R. I.
Tad Chemical Co., Div. Acme Industrial Compounds Corp., 625 S. Goodman, Rochester 7, N. Y.
Tagit Co., 1212 11th St., Rockford, Ill.
Tagliabue, C. J., Div., Portable Products Corp., Room 4114 Woolworth Bldg., 233 Broadway, New York 7, N. Y.
Takamine Laboratory, Inc., 193 Arlington Ave., Clifton, N. J.
Take-Care Mfg. & Sales Co., 2225 E. Ninth St., Wichita, Kans.
Talley Laundry Machinery Co., Mill St., Greensboro, N. C.
Talon, Inc., 626 Arch St., Meadville, Pa.
Tarbonis Co., 4300 Euclid Ave., Cleveland 3, Ohio

Tash, Al, Dye Works, Grand Prairie, Dallas County, Texas
Taylor, W. A., & Co., 7300 York Rd., Baltimore 4, Md.
Tejax Engineering Corp., 2 Allens Ave., Providence 3, R. I.
Teleflex, Inc., 248 W. Wingohocking St., Philadelphia 40, Pa.
Temple, A. B., Co., 308 W. Burlington, La Grange, Ill.
Templeton Bros., Inc., 699 Main St., Walpole, Mass.
Testing Machines, Inc., 427 W. 42nd St., New York, N. Y.
Texas Co., 135 E. 42nd St., New York, N. Y.
Texas Soap Mfg. Corp., 4905 Calhoun Rd., Houston 4, Texas
Tex Tag Control Systems, 522 W. Peachtree St., Atlanta, Ga.
Textile Marking Machine Co., Inc., 246 Walton St., Syracuse 2, N. Y.
Theobald Industries, Sanford Ave., Kearny, N. J.
Thomaston Mills, E. Main St., Thomaston, Ga.
Thompson, H. C., Clock Co., 38 Federal St., Bristol, Conn.
Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City 8, Mo.
Tho-Ro Products, Inc., 222 Fourth Ave., New York 3, N. Y.
Thrifty Weavers, 310 N. St. Clair St., Toledo 4, Ohio
Tie Co., Unadilla, N. Y.
Tillery Container Co., 6000 Wilson Ave., Kansas City 3, Mo.
Time Savers, Inc., 83-99 Walnut St., Montclair, N. J.
Timken Roller Bearing Co., Canton 6, Ohio
Tingue, Brown & Co., 1765 Carter Ave., New York 57, N. Y.
Titeflex, Inc., 596 Frelinghuysen Ave., Newark 5, N. J.
Titusville Iron Works Co., Div. Struther Wells Corp., 51 Drake St., Titusville, Pa.
Todd Co., Inc., Rochester 3, N. Y.
Toledo Scale Co., 1076 Telegraph Rd., Toledo 12, Ohio
Tompkins' Label Service, Frankford Ave. at Allegheny Ave., Philadelphia 34, Pa.
Tork Clock Co., Inc., 1 Grove St., Mt. Vernon, N. Y.
Trachtenberg, Sol G., & Son, 115 W. 30th St., New York 24, N. Y.
Trane Co., La Crosse, Wisc.
Travelers Insurance Co., Hartford, Conn.
Tress, Harry Jay, Inc., 147 W. 35th St., New York 1, N. Y.
Trico Chemical Div., Tri-State Equipment Co., 402 Swetland Bldg., 1010 Euclid Ave., Cleveland 15, Ohio
Trico Fuse Mfg. Co., 2948 N. Fifth St., Milwaukee 12, Wisc.
Triner Scale & Mfg. Co., 2714 W. 21st., Chicago, Ill.
Trio Chemical Works, Inc., 341-49 Scholes St., Brooklyn 6, N. Y.
Tri-Pak Machinery Service, Inc., Box 1228, Harlingen, Texas
Triple "M" Inc., 12 Beacon St., Somerville 43, Mass.
Trojan Button Co., 216 W. Jackson Blvd., Chicago 6, Ill.
Tropical Paint & Oil Co., 1242-1286 W. 70th St., Cleveland 2, Ohio
Troy Engine & Machine Co., 2400 Railroad Ave., Troy, Pa.
Troy Laundry Machinery Div., American Machine & Metals, Inc., East Moline, Ill.
Troy Sunshade Co., Troy, Ohio
Tru Color Dye Works, 8000 Cooper Ave., Brooklyn 27, N. Y.
Tru-Sheen Corp., 1230 Edward St., Richmond, Cal.
"TT" TickeTag Corp., 512 N. Wrenn St., High Point, N. C.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Cal.
Tyson Sales Co., Inc., 1212 Washington Ave., Houston, Texas

U

Union Iron Works, 15th & Cascade St., Erie, Pa.
Union Oil Co. of California, Los Angeles, Cal.
Unipress Co., 2800 Lyndale Ave., S., Minneapolis 8, Minn.
United Autographic Register Co., 5000 S. California Ave., Chicago, Ill.
United Brass Works, 1589 Atlantic Ave., Brooklyn, N. Y.
United Cotton Goods Co., Inc., 101 E. Broadway, Griffin, Ga.
United Electric Motor Co., 178 Center St., New York 13, N. Y.
United Fabrics Co., 223 W. Jackson Blvd., Chicago, Ill.
United Print Shop, 283 Seventh Ave., New York 1, N. Y.
U. S. Blind Stitch Machine Co., 312 Seventh Ave., New York, N. Y.
U. S. Chemical Products Co., P. O. Box 212, Columbus, Ohio
U. S. Gauge Div., American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
U. S. Hoffman Machinery Corp., 105 Fourth Ave., New York 3, N. Y.
U. S. Machine Corp., Lebanon, Ind.
U. S. Marking Tag Co., Inc., 718 Atlantic Ave., Brooklyn 17, N. Y.
U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
U. S. Rubber Co., Koylon Div., 407 N. Main St., Mishawaka, Ind.
U. S. Stoneware Co., 60 E. 42nd St., New York 17, N. Y.
U. S. Tissue Converting Co., 1848 W. Washington Blvd., Los Angeles 7, Cal.
United Vacuum Appliance Corp., Connersville, Ind.
Unit Wash Co., S. Washington St., Plainville, Conn.
Universal Laundry Machinery Co., 3739 Page Blvd., St. Louis, Mo.

V

V & W Equipment Co., 27 Foundry, N.W., Atlanta 3, Ga.
Valdura Div., American Marietta Co., 43 E. Ohio St., Chicago 11, Ill.
Van Chemical Co., 539 Third St., Detroit 26, Mich.
Vanette Div., Universal Sales, Inc., Delaware, Ohio
Veeder-Root, Inc., 20 Sargeant, Hartford 2, Conn.
Velan Engineering Co., 6585 Jeanne Mance St., Montreal, Can.
Velocity Steam Production Engineering, Inc., 38 S. Dearborn St., Chicago 3, Ill.
Vic Cleaning Machine Co., 1313 Hawthorne Ave., Minneapolis 3, Minn.
Victor Balata & Textile Belting Co., 53 Park Pl., New York 7, N. Y.
Victor Chemical Works, 141 W. Jackson Blvd., Chicago 4, Ill.
Victor Lubricator Sales Co., Mildred & North Aves., Antioch, Ill.
Viking Pump Co., Fourth & Newman Sts., Cedar Falls, Iowa
Virginia-Carolina Laundry Supply Corp., 212 W. Seventh St., Richmond, Va.
Virginia Greenstone Co., Inc., Box 897, S. Lynchburg, Va.
Virginia Leather Co., 2210-2216 McDonough St., Richmond 24, Va.
Virginia Smelting Co., Third Ave. & Jefferson St., West Norfolk, Va.
Vita-Var Corp., 46 Albert Ave., Newark 2, N. J.
Volk, Lawrence B., 1221 Washington Ave., Scranton, Pa.

W

Wagner Awning & Mfg. Co., 2658 Scranton Rd., Cleveland 1, Ohio
Wagner Sign Service, Inc., 212 Hoyne Ave., Chicago 12, Ill.
Waldorf Co., 2236 Myrtle Ave., St. Paul, Minn.
Waldorf Paper Products, 2250 Wabash Ave., St. Paul 4, Minn.
Wallace & Tiernan Products, Inc., 1 Main St., Belleville 9, N. J.
Wallerstein Co., Inc., 180 Madison Ave., New York 16, N. Y.
Walsh Packing Co., 208-210 Race St., Philadelphia 6, Pa.
Walton Trunk Co., 78 Fifth Ave., New York 11, N. Y.
Walworth Co., 60 E. 42nd St., New York 17, N. Y.
Warco Laboratories, 1640 W. Vernon, Los Angeles 37, Cal.
Warren Belting Co., Inc., 33 Arctic St., Worcester 8, Mass.
Washine National Sands, Inc., 37-02 Northern Blvd. Long Island City 1, N. Y.
Water Service Laboratories, Inc., 423 W. 126th St., New York 27, N. Y.
Watson-Standard Co., 225 Galveston Ave., Pittsburgh 12, Pa.
Wayne Pump Co., 524 Tecumseh St., Fort Wayne 4, Ind.
Weave-Bac, Swetland Bldg., Cleveland 15, Ohio
Weave Masters, Inc., 413 Race St., Cincinnati, Ohio
Webb Belting Co., 1501-1507 W. 12th St., Kansas City 7, Mo.
Webster, Warren, & Co., 17th & Federal Sts., Camden, N. J.
Wendling Standard Forms, Fort Thomas, Ky.
Wescott Products Corp., 131 Lincoln Ave., New York 54, N. Y.
West Coast Laundry Machinery Co., 3246 17th St., San Francisco 10, Cal.
Western Laundry Machinery Co., 420 E. 10th St., North Kansas City 16, Mo.
Western Laundry Press Co., 619 S. Fifth West St., Salt Lake City, Utah
Western Pump Co., Ltd., 522 W. Santa Clara St., San Jose 1, Cal.
Westinghouse Air Brake Co., Industrial Products Div., Wilmerding, Pa.
Westinghouse Electric Corp., Lamp Div., Bloomfield, N. J.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.
West Side Corp., 177 E. 123rd St., New York 35, N. Y.
Westvaco Chemical Div., Food Machinery & Chemical Corp., 405 Lexington Ave., New York 17, N. Y.
Whitehouse Products, Inc., 360 Furman St., Brooklyn 2, N. Y.
White Machine Co., 104-106 Livingston St., Newark 3, N. J.
White Motor Co., 847 E. 79th St., Cleveland, Ohio
Whitlock Mfg. Co., 90 South St., Elmwood, Hartford 10, Conn.
Whitman Supply Co., 131 Lincoln Ave., New York 54, N. Y.
Whitney Chain & Mfg. Co., 237 Hamilton St., Hartford 2, Conn.
Wichita Precision Tool Co., Inc., 450-454 N. Seneca, Wichita 12, Kans.
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For Sale—Laundries, Drycleaning Plants, Rug Cleaning Plants in Metropolitan N. Y. C. area, Westchester, New Jersey, Connecticut, Pennsylvania. If interested in buying or selling, contact **J. B. KANDEL, 131-39 228TH STREET, LAURELTON, LONG ISLAND, NEW YORK. PHONE: LAURELTON 8-3291.** 4648-2

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Well-established plant catering to high-class clientele, noted for its quality work. Located central Texas. Owner wishes to retire or sell half interest. Money maker. **ADDRESS:** Box 4455, **NATIONAL CLEANER & DYER.** -2

ARKANSAS' LARGEST DRIVE-IN CLEANING AND DYEING PLANT. Annual business $75,000 with 80% cash-and-carry. Gross equipment—modern fixtures—inventorying at $25,000. Ten-year lease on building with option for ten more. Rent reasonable. Price $35,000—terms can be arranged. **WRITE: RALPH MILHOLLAND,** 4106 W. Markham, Little Rock, Arkansas. 4492-2

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IN CENTRAL INDIANA, suburb of large city, solvent plant doing approximately $22,000 annually with plenty opportunity for expansion. Two routes with two 1950 model panel trucks, good counter business. Boiler, cleaning and finishing equipment 5 years old. Business established 10 years. Business building adjoins a strictly modern 7-room home on approximately one acre ground, nicely landscaped and lighted. Retiring from business on account of health. Will sell all for $35,000, $18,000 cash. Terms may be arranged for balance. **ADDRESS:** Box 4618, **NATIONAL CLEANER & DYER.** -2

For Sale—one-half interest in cleaning plant, doing $1,200 per week. Reason for selling, ill health. **ADDRESS:** Box 4621, **NATIONAL CLEANER & DYER.** -2

WELL ESTABLISHED SOLVENT PLANT—Excellent equipment and facilities. Annual gross around $150,000—were in excess of $200,000—decrease due to owner's absence. Large potential market both wholesale and retail in and around South End of Chicago. Will sell with or without real estate. Write: Box 4639, **NATIONAL CLEANER & DYER.** -2

DRYCLEANING PLANT—1950 sales $114,000 year; eleven trucks, cover five West Virginia counties; Sanitone plant fully equipped; employ 48; no near competition; low overhead; well known; price reasonable. Apple Company, Brokers, Cleveland, Ohio. 4640-2

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Established drycleaning plant in South Texas. Sacrifice price, partner drafted. Quality work, good following. Large building, good lease. **ADDRESS:** Box 4656, **NATIONAL CLEANER & DYER.** -2

Drycleaning plant, volume $25,000 a year. Mercury machinery 4 years old, 1950 panel Chevrolet truck. St. Mary's population 10,000, 7 large factories; nearby town 9 miles away, 7,000 population. 5-year lease on building with option for renewal. Price $13,000—$8,000 will handle. B & M Cleaners, St. Mary's, Pa. 4660-2

OLD ESTABLISHED CLEANING BUSINESS in western Michigan. Modern equipment. Hoffman Nu-Cleaning System. Good business, all cash and carry. Will sacrifice for quick sale. **ADDRESS:** Box 4661, **NATIONAL CLEANER & DYER.** -2

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FOR LEASE, cleaning plant, on account of death of husband. About 20 miles from Los Angeles, across from supermarket. Day & Nite Cleaners, Pico & Mission Blvd., San Fernando, Calif. 4644-20

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Drycleaner and Spotter: Quality essential. Over draft age. Have excellent reference and qualifications. Salary $75 a week and up. Medium-size petroleum solvent retail plant. Established over 50 years. Verbeyst Cleaners, Tulane St., Princeton, N. J. 4534-7

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Experienced manager, expert silk spotter who understands and is able to teach the fundamentals of a cleaning plant. Give full details in first letter. **ADDRESS:** Box 4682, **NATIONAL CLEANER & DYER.** -7

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EXPERIENCED PRESSER to work as head pressman, capable of managing finishing department. Sanitone plant located in a Catholic town in Iowa, employing six people. **ADDRESS:** Box 4638, **NATIONAL CLEANER & DYER.** -7

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Salesman with contacts among drycleaners and laundries to sell straight pins, staples, office supplies and printing on profit sharing plan. State experience and what contacts you have. **ADDRESS:** Box 4337, **NATIONAL CLEANER & DYER**. -14

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Advertisers' Index

A

A. A. Laundry Machinery Co. 226
Acme Industrial Compounds Corp. 237
Adco, Inc. 167, 169
Adrian Research & Chemical Co., Inc. 271
Almore Dye House 227
Amber Manufacturing Co. 224
Amber School of Weaving 267, 350
American Aniline Products, Inc. 247
American Brass Co., American Metal Hose Branch 220
American Cleaners Equipment Co., Div. of The American Laundry Machinery Co. 120–121, 144–145
American Hatters Supplies, Inc. 254
American Mothproofing Co. 187
American Pressboard Co. 230
Ames Iron Works 230
Anderson-Prichard Oil Corp. 146
Archer Supply Co., Inc. 325
Armour & Co., Industrial Soap Div. 122
Armstrong Machine Works 200
Arrow Fastener Co., Inc. 190, 274
Arrow Manufacturing Co., Inc. 34
Associated Business Papers 216
Atlanta Brush Co. 238
Ayr-Mor Machinery Co. 198

B

Baddeley, Inc., M. M. 339
Behrstock Co., L. 230
Belco Supplies, Inc. 338
Benda Products, Inc. 270, 285
Berlou Mfg. Co. 221
Bertsch & Co. 220
Bigelow-Sanford Carpet Co. 22
Biggerstaff, K. 337
Billingsly Machinery Co. 341
Bishop Co., G. H. 37
Bixbee Research Div. of Blazemaster, Inc. 215, 248, 252
Bloom & Sons, Inc., Abe 332
Bock Laundry Machine Co. 230
Boggs & Co., Inc. 335
Boiler Engineering & Supply Co. 228
Boston Clip & Tag Co. 223, 256, 277
Bovard Co., Carl A. 331
Bowser, Inc. 212
Bronx Pressing Machine Co., Inc. 332
Brusowankin & Sons, S. 325
Butler Manufacturing Co. 153, 165, 173

C

Caldwell Chemical Co., Inc. 327
Caled Products Co., Inc. 179
Calgon, Inc. 152
Capital Poster Service 263
Carman & Co., Inc. 143
Carson Textile Co., Inc. 260
Cash Co., A. W. 242, 283
Certified Chemical & Equipment Co. 281
Chandler Machine Co. 269
Chicago Metal Hose Div., Flexonics Corp. 222
Chicago Used & New Laundry Equipment Co. 321
Cincinnati Repair Service 267
Cissell Mfg. Co., Inc., W. M. 157–160
Cleaners Hanger Co. 254
Cleaners Sales Co. 327
Cleaners Sales & Equipment Corp. 332
Columbia Appliance Corp. 246
Columbia Boiler Co. 185, 237
Commercial Tag Co. 254, 266
Concord Chemical Co. 285
Conrad Embroidery Co. 247
Cook Machinery Sales Co. 178
Cox Co., James E. 320
Craig Supply Co. 330
Cummings-Landau Laundry Machinery Co., Inc. 258

D

Dallas Tailor & Laundry Supply Co. 341
Daniels, Inc., C. R. 228, 280
Darco Dept. (Atlas Powder Co.) 17
Davies-Young Soap Co. 3, 129, 244, 271, 273, 285
Davis Specialties, Inc. 19
Detrex Corporation 35
Dixie Laundry Machinery Co. 316
Dixo Company 330
Doctor Boiler, Inc. 237
Drake Supply Co., Inc. 323
Drew & Co., Inc., E. F. 191
Dryco Corporation 31
Duncan & Co., Inc., S. H. 335
Du Pont de Nemours & Co., Inc., E. I. 4, 164

E

Eaton Chemical & Dyestuff Co. 175
Eclipse Fuel Engineering Co. 132
Elgin Softener Corp. 285
Emery Industries, Inc. 119
Endriss Chemicals 272
Excelsior Machinery Co. 27

F

Fabric Laundry & Dry Cleaning Machinery Corp. 206–207, 246
Falls Supply Co. 335
Filtrol Corporation 219
Firefly Asbestos Products Co. 229
Fleischer Mills, Inc. 277
Fletcher Works, Inc. 168
Fry Bros. Co. 133
Fumol Corporation 260
Furtex Rejuvenating Corp. 252

G

Gardner Machinery Corp. 335
Garment Dyers Guild of America, The 180
Garment Finishing Equipment Corp. 229, 275
Germain's Germaco Products Div. 166, 254
Glover, Inc., Bill 193
Goldman Pressing Machine Corp. 333
Goodyear Tire & Rubber Co. 14
Greenville Chemical Co. 224, 274
Gross Machinery Co., Inc. 8, 248, 249, 281, 284

H

Haertel Co., Walter 208, 251, 276
Hammond Laundry-Cleaning Machinery Co. 162
Handy Button Machine Co. 239
Hatters Supply House, Inc. 254
Havnaer Supply Co. 343
Henderson Co., Hugh G. 342
Henrici Laundry Machinery Co. 284
High Chemical Co., Chemical Specialties Div. 231
Hild Floor Machine Co. 209
Hodge, Farwell & Co. 270, 279, 280
Hollingsworth & Vose Co. 227
Hood Chemical Co., Inc., Crescent Div. 269
Hopkins Equipment Co. 125, 239, 245, 250, 269, 276, 285
Hoyt Manufacturing Corp. 211
Huebsch Div., American Laundry Machinery Co. 181
Huntington Laboratories, Inc. 225
Huron Milling Co. 274

I

Imperial Laundry Machinery Co. 352
International Harvester Co. 156
International Paper Co. 147

J

Jacobson Dye Works, Inc., Lawrence 247
Jaffe, Walter 339
Johns-Manville Second Cover
Johnson Metal Hose, Inc. 255

K

Kelley Iron Works 335
Kennedy Car Liner & Bag Co. 154
Kennedy Products Co. 230
Kensten Chemical & Supply Corp. 333
Kisco Boiler & Engineering Co. 196

When writing to advertisers please mention The NATIONAL CLEANER & DYER

Advertisers' Index

Kliegman Bros., Inc. 333
Kohnstamm & Co., Inc., H. 26

L

Lake Chemical Supply Co. 339
Lally Co., R. 263, 279
Lamson Corp., Blower Div. 223, 282
Larton Products Co., Inc. 231
Laundry Dryer & Heating Co. 329
Leathers' Sons, L. M., Paper Products Div. 161, 280
Leffel & Co., James 170
Levin Sons Co., J. 327
Lewis National Corp. 325
Lincoln Bag Co., Inc. 135–138
Lynn Chemical Co., Inc., William 323

Mc

McDonnell & Miller, Inc. 204
McElmoyl Co., W. J. 235

M

Majestic Dye House 247
Manitowoc Cotton Goods Mfg. Co. 182
Manitowoc Mfg. Div., Manitowoc Shipbuilding Co. 131
Mann & Co., Inc., George 325, 340
Market Forge Co. 221
Mar-Mak Rug Dry Cleaning Machinery Mfg. Co. 194
Martin Equipment Corp. 184, 246
Marvel Mfg. Co. 342
Mercury Cleaning Systems, Inc. 150
Merson Products Co. 177
Mid-Atlantic Machinery Co. 319
Midland Color & Chemical Co. 330, 333
Midland Laundry Equipment Co. 328
Mid-States Supplies, Inc. 323, 336, 337
Montpelier Mfg. Co. 192
Morehead Mfg. Co. 280
Morwhite Chemical Co., Inc. 331
Multi-Clean Products, Inc. 217

N

National Cash Register Co. 126
National Cleaner & Dyer 124, 128, 218, 230
National Cleaners Chemical Mfg. Co. 183
National Marketers 316, 345
National Marking Machine Co. 202
Newhouse Co. 213
New York Pressing Machinery Corp. 176, 264
Norton & Williams, Inc. 264, 331
Nu-Pro Mfg. Co. 28–29
Nusbaum & Sons, Inc., A. 334

O

Oil States Petroleum Co., Inc. 271
Olson Corporation, J. B. E. 280
Olson Filtration Engineers, Inc. 205–207

P

Pabst Sales Co. 140
Package Chemical Co., Inc. 271, 274, 326
Packless Metal Products Corp. 9, 255
Pana-Lux Products Co. 135–138
Parker Boiler Mfg. Co., Inc., Sid E. 231
Pellerin Laundry Machinery Sales Co. 324
Pellerin Milnor Corp. 174, 248, 284
Pennsylvania Salt Mfg. Co. 33
Permafiber Corp. 171–172, 277
Permutit Company 285
Petroleum Heat & Power Co. 239
Phipps & Bird, Inc. 343
Pittsburgh Tag Co. 259, 262, 277
Polar Chemical Co. 324
Pre-Marked Strip Tag Co. 23
Procter & Gamble Distributing Co. 222
Proctor & Schwartz, Inc. 268
Prosperity Co., Inc. 127

R

Ramelli, Inc., Rudolph 324
Reid Supply Co. 324
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc. 142, 251, 276
Reliable Steam Pressing Machine Service, Inc. 214
Resillo Company 16, 261, 265
Risdon Mfg. Co. 228, 263
Riverside Mfg. Co. 20–21
Robins & Co., G. S. 329
Rodin Machinery Co., Div. Rodin Bros. 322
Rubinoff Co., M. 276
Rutherford & Co., E. J. 339

S

Salomon Bro., L. A. 277
Sarco Co., Inc. 280
Saxe-Freeman Co. 329
Schaub Engineering Co., Inc., Fred H. 210
Schirmer-Dornbirer Pump Co. 163
Sec-O-Matic Corporation 13, 246
Security Fur Seal Co., Inc. 230
Shedlov-Heinz Mfg. Co. 231, 264
Shields Engineering & Mfg. Co. 205, 246
Sirotta Co., Bernard 252
Smith, Laurence C. 334
Snyder Supply Service 344
Southern Laundry Machinery Co. 335
Southern Machinery Co. 343
Southern Supply & Chemical Co. 343
Specialty Devices Co. 234
Spix Products Co. 199
Stadham Co., Inc. 230
Stamford Chemical Co. 245
Starchroom Laundry Journal 226
Star Service Hanger Div., L. A. Young Spring & Wire Corp. Third Cover
Stauffer Chemical Co. 130
Stitt-Reed, Inc. 258
Street & Co., Inc., R. R. 7, 148–149, 151, 271, 274, 276
Stry-Lenkoff & Co. 277
Superior Boiler and Supply Co. 324
Superior Products Co. 326

T

Takamine Laboratory, Inc. 229
Tarbonis Co. 254
Textile Marking Machine Co., Inc. 195
Thompson-Hayward Chemical Co. 188
Tillery Container Co. 123
Time Savers, Inc. 228
Tri-State Supply Co. 341
Troy Laundry Machinery Div., American Machine & Metals, Inc. 25
Tru Color Dye Works 155
"TT" TicketTag Corp. 256, 278

U

Unipress Company 5, 264, 265, 270
U. S. Hoffman Machinery Corp. 141, 189, Fourth Cover

V

V & W Equipment Co. 225
Vic Cleaning Machine Co. 15
Viking Pump Co. 229
Virginia-Carolina Laundry Supply Corp. 319, 343
Virginia Greenstone Co., Inc. 251, 286

W

Waldorf Paper Products 254
Wallerstein Co., Inc. 10–11
Warco Laboratories 226
Western Laundry Machinery Co. 201
Western Laundry Press Co. 186
West Side Corp. 235, 334
Westvaco Chemical Div., Food Machinery & Chemical Corp. 134
White Machine Co. 231
Wichita Precision Tool Co., Inc. 197
Wilson Chemical Co., A. L. 203

Y

Yarnall-Waring Co. 139

Z

Zephyr Laundry Machinery Co. 32

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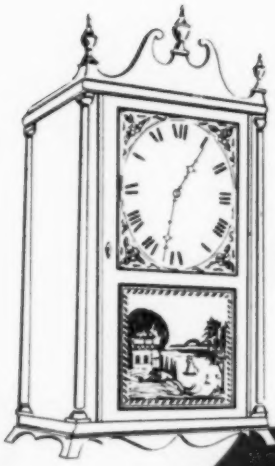

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